



## **Deliverable 13.3: Alignment of the available courses with the Roadmap.**

Work Package 13

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## Executive Summary

In March 2020, WP13 launched a ‘Survey on training initiatives’ in order to get a overview of the training needs as well as the existing training courses in the field of Radioactive Waste Management (RWM) within the EURAD community. The results of this survey were summarised in D13.1 - List of training needs from Research, Development and Demonstration and Strategic Studies Work Packages [1].

Additionally, WP13 performed a mapping of currently existing available course courses in the field of RWM. To do so, various sources were sought, including previous EURATOM Framework Programmes (FP) and other initiatives developed by the International Atomic Energy Agency (IAEA) and the Nuclear Energy Agency (OECD-NEA). Courses found were identified, analysed and summarized in deliverable D13.2 - Mapping of available course materials [2]. The complete set of courses is collected in a database and is included in the portfolio of European RWM courses.

In this report, a new analysis of the courses’ portfolio has been done with inclusion of new descriptors linked to the EURAD Roadmap D1.7 Roadmap extended with Competence Matrix [3]. The new portfolio of (historical and ongoing) courses substitutes the previous portfolio [Appendix ]. The identified courses and the EURAD Roadmap have been aligned with the seven EURAD themes and is presented in the appendixes B-H in this report.

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## Glossary and abbreviations

Term	Description
Community of Practice (CoP)	A voluntary group of peer practitioners who share lessons learnt methods, and best practices in a given discipline or for specialized work. The term also refers to a network of people who work on similar processes or in similar disciplines, and who come together to develop and share their knowledge in that field for the benefit of both themselves and their and other organization(s).
Concept Maps	Tools for organizing and representing knowledge.
Content	The interactive and non-interactive object containing information represented by text, image, video, sound or other media.
Content Management	The processes and workflows involved in organizing, categorizing and structuring information resources so that they can be stored, published and reused in multiple ways.
Critical Knowledge	Critical knowledge refers to the specific information, skills, and expertise that are essential to the success of an organization or individual in a particular field or industry. It is the knowledge that is crucial for achieving key objectives, solving complex problems, and making critical decisions. When this essential knowledge is at risk of being lost, it becomes critical.
CZ	Czech Republic
Document Management	Systems and processes for managing documents including the creation, editing, production, storage, indexing and disposal of documents. This often refers to electronic documents and uses specific document management software.
Domain	An area of activity, interest, or knowledge, especially one that a particular person, organization etc. deals with. It represents the lowest level of the EURAD Roadmap Goals Breakdown Structure.
Domain Insight Documents	Context documents that provide direct links for each knowledge domain to safety and implementation goals related to RWM requirements.
EN	English
EURAD	European Joint Programme on Radioactive Waste Management
EURAD	The European Joint Programme on Radioactive Waste Management (EURAD). Also referred to as the 'Joint Programme'.
Expert	Someone widely recognized as a reliable source of knowledge, technique or skill whose faculty for judging or deciding rightly, justly, or wisely is accorded authority and status by their peers or the public in a specific well-distinguished domain.
FN	Finnish
FP	Framework Programme
FR	French
FTF	Face-to-Face (physical presence)
Glossary	A glossary is a list of specialized terms and their definitions used in a particular field or text.

Goal Breakdown Structure (GBS)	The EURAD goals breakdown structure is a thematic breakdown of knowledge and generic activities essential for radioactive waste management. It comprises Themes (Level 1), Sub- themes (Level 2) and Domains (Level 3), each formulated as goals. Although hierarchical and numbered, the knowledge and activities presented across the GBS should be considered collectively with no weighting to order of importance. Rather it is emphasised that there are many inter-dependencies and linked data across the GBS, where knowledge and activities can be centred in different ways, depending on the end user role and precise boundary conditions of the RWM programme to which the roadmap is applied.
GR	German
IAEA	International Atomic Energy Agency
Information Management	The management of an organization's information resources with the aim of improving the performance of the organization. Information management underpins knowledge management, as knowledge is derived from information.
Information Transfer Policy	The information transfer policy means that information and information assets will be transmitted between departments, service providers, private entities, and individuals. Information is transported through several media and methods in both electronic and paper formats.
IRSN	Institute for Radiation Protection and Nuclear Safety
JP	Japanese
Knowledge	Knowledge is the acquisition, understanding and interpretation of information. It is often used to refer to bodies of facts and principles accumulated by humankind over the course of time. Knowledge and information each consists of true statements, but knowledge serves a purpose: knowledge confers a capacity for effective action.
Knowledge Ambassador	Knowledge Ambassador is a person which plays an active role in supporting knowledge sharing and effective integration of knowledge management strategies in WPs.
Knowledge Base	A knowledge base is a collection of knowledge in the form of subject-problem-solution information that pertains to a specific topic or subject of interest. A knowledge base is a special kind of database for knowledge management.
Knowledge Management (KM)	An integrated, systematic approach of identifying, managing and sharing an organization's knowledge and enabling groups of people to create new knowledge collectively to help in achieving the organization's objectives.
Knowledge Management System (KMS)	Knowledge Management System (KMS) is a system for applying and using knowledge management principles to typically enable to create, share and find relevant information & knowledge quickly.
Knowledge Preservation	A process of maintaining an organizational system of knowledge and capabilities that preserves and stores perceptions, actions and experiences over time and secures the possibility of recall for the future.

Metadata	Descriptors which define and describe the data and the circumstances of their creation (date, persons, locations, institutions, treaties, liabilities, storages, access modes etc.)
Ontology	A formal specification of a shared conceptualization of a domain of knowledge. An ontology defines a set of concepts and categories, as well as the relationships between them, and can be used to facilitate communication and knowledge sharing within a particular domain.. .
Portal	A portal is a tool to integrate many existing systems within an organization as well as to provide a solid platform to develop other knowledge management initiatives, enhancing the efficiency of communication and of organizational processes. A portal greatly facilitates the production, accessibility, sharing and effective use of valuable information. It also guarantees generation and usage of information at different times or across different locations and teams.
Portal-Knowledge Management System (p-KMS)	Portal-KMS is a comprehensive access structure to resources that are suitable to support the fundamental activities of knowledge management to communicate, study and do research.
Radioactive Waste Management (RWM)	All activities, administrative and operational, that are involved in the handling, pre-treatment, treatment, conditioning, transport, storage and disposal of radioactive waste.
RE	Research Entities
Roadmap	A generic RWM framework to organise different typical scientific and technical domains and sub-domains in a logical manner against different phases of a RWM programme.
RS	Russian
RWM	Radioactive Waste Management
Self-activity tracking	Self-activity tracking is a process of tracking, collecting, and analyzing by users' they behavior on websites, apps, or devices. It track self-activity on the website, including the use of applications, actions performed on the website like a scroll, click, form filling, etc.
Semantic search engine	Semantic search describes a search engine's attempt to generate the most accurate search engine results page (SERP) results possible by understanding based on searcher intent, query context, and the relationship between words.
SP	Spanish
State-of-Knowledge (SoK)	Experts' view of the most relevant knowledge and associated uncertainties in a specific domain/sub-domain applied in the context of a radioactive waste management programme.
State-of-the-Art (SotA)	"State-of-the-art" refers to the current level of advancement in a particular field, technique, or technology. It is used to describe the highest level of performance achieved by the most advanced research or development in a given area.

Strategic Research Agenda (SRA)	Describes the scientific and technical domains (and sub-domains) and knowledge management needs of common interest between EURAD participant organisations.
Taxonomy	A hierarchical structure in which a body of information or knowledge is categorized, allowing an understanding of how that body of knowledge can be broken down into parts, and how its various parts relate to each other. Taxonomies are used to organize information in systems, thereby helping users to find it.
Text Mining	Text mining, also known as text data mining, is the process of extracting valuable insights and knowledge from large amounts of unstructured textual data. It involves using computational techniques to analyze and understand patterns, trends, and relationships within textual data, with the goal of uncovering hidden information and improving decision-making
Theme Overview (TO)	Broad description of programme goals and typical activities for each theme and how they evolve over the phases of implementation.
Themes	Themes are large groupings of related Knowledge Domains typical in Radioactive Waste Management. They are the highest level of the EURAD Roadmap Goals Breakdown Structure.
TSO	Technical Support Organization
Vocabulary	Vocabulary is designed to support consistent indexing and end user navigation, browsing and searching. It gathers synonyms, acronyms, variant spellings, relation etc.
WAC	Waste Acceptance Criteria
WMO	Waste Management Organization
Work Package (WP)	A work package is a group of related tasks established within EURAD. Because they look like projects themselves, they are often thought of as sub-projects within the Joint Programme.
WP	Work Package

## 1. Introduction

The main goal of European Joint Programme on Radioactive Waste Management (EURAD) Work Package (WP) 13 is to establish the School of Radioactive Waste Management (RWM) [6]. The EURAD School of RWM acts as the executive body for all training and mobility actions that are organised within EURAD.

The EURAD School of RWM contributes to the strategic knowledge management objectives of EURAD, namely by: (i) preservation of generated knowledge (in- and outside of EURAD), (ii) transfer of knowledge towards Member States and between generations and (iii) dissemination of knowledge (by organising training courses based on end-users priority list for training and mobility within the RWM community [4].

For training courses, a portfolio of tailored basic and specialised courses has been established and is presented in a database [2; Appendix ]. This portfolio contains a list of existing initiatives (historical) (e.g. International Atomic Energy Agency, IAEA, courses), but also includes new training courses organised by the EURAD School of RWM, which fill identified training gaps.

The intention of this report is to actualise the portfolio of RWM courses collected in the deliverable D13.2 Mapping of available course materials [2; Appendix ] and link them with the new descriptors as given in the extended EURAD Roadmap [3] to align the portfolio with the EURAD Roadmap.

## 2. Summary of first portfolio of available RWM courses.

Over 160 RWM courses were identified, collected, analysed and summarized in the first portfolio of available course materials [2]. Most of them are taught by organisations with research and technological activities, and mainly done as part of an international project. The previous information gathered, when available, was included in a database stored on EURAD's platform [<https://service.projectplace.com/>] and the EURAD School of RWM [6]

- Course title
- Project name
- Organisation
- Other participants
- Year
- Type of training: lectures, technical visits, hands-on-training, e-learning, self-study
- Mode of training: Online/face-to-face
- Location/Platform
- Language
- Duration
- Cost
- Frequency
- Background/Required knowledge
- Target audience
- Certificate information<sup>1</sup>
- Course objectives<sup>2</sup>
- Topics
- Learning outcomes
- Programme
- Web link
- Comments

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<sup>1</sup> Information related with the certification:

- If it is or not a certified training activity
- Number and type of credits (if it is the case),
- If a licence or accreditation can be obtained
- Entity that grants the certification

<sup>2</sup> Course objectives are referred to the overall goals of the training activity. They are different from the learning outcomes, which describe competencies or performance capacities to be acquired by the learner at the end of the training activity [7].

The inventory of training courses was tagged to the seven EURAD themes:

1. Managing implementation and oversight of a RWM program
2. Radioactive waste (RW) characterisation, processing and storage, and source term understanding for disposal
3. Engineered barrier system properties, function and long-term performance
4. Geoscience to understand rock properties, radionuclide transport, long-term geological evolution
5. Facility design and the practicalities of construction, operation and closure
6. Siting and licensing
7. Performance assessment, safety analysis and safety case development

The classification in the seven themes was convenient in order to discretise the huge field of RWM activities and to align them with the EURAD Roadmap where anyhow each theme refers to a broad subject in itself. Most of the courses found cover some subjects of these themes, not necessarily being specific of one them, and in most of the cases, they touch upon several themes.

This categorisation provided the criteria for the mapping. In addition, courses were classified as “general” when the training covered 4 to 7 EURAD themes or “specific” when they covered up to 3 themes. Around 1/3 of the courses fit into the general category providing an overview of RWM, having usually a duration of 1 week.

The courses organised by EURAD has been included in the portfolio (up November 2023).

### 3. New portfolio of available RWM courses.

In order to align the first portfolio of RWM courses with the EURAD Roadmap, a detailed analysis of the D1.7 EURAD Roadmap, extended with Competence Matrix [3] was performed.

Due to the difficulty to obtain precise information about each of the identified courses and due to the fact that the URL for some of them did not work anymore, it was decided to align the courses with Level 2 (EURAD Sub-themes) and not going down to Level 3 (EURAD Domains).

This new scope of the courses categorisation, gave rise to new columns, which were added to the database (one column by each EURAD Sub-theme):

*Table 1. EURAD themes and Sub-themes included in the RWM courses database.*

EURAD Theme (Level 1)	Sub-themes (Level 2)
1. Managing implementation and oversight of a RWM programme	1.1. Programme planning 1.2. Programme organisation 1.3. Programme resources 1.4. National inventory 1.5. Management solutions
2. RW characterisation, processing and storage, and source term understanding for disposal	2.1. Planning 2.2. Implementation 2.3. Optimisation
3. Engineered barrier system properties, function and long-term performance	3.1. Wasteforms 3.2. Waste packages, for disposal 3.3. Buffers, backfills, plugs and seals 3.4. EBS system integration
4. Geoscience to understand rock properties, radionuclide transport, and long-term geological evolution	4.1. Site description 4.2. Perturbations 4.3. Long-term stability 4.4. Layout and construction
5. Facility design and the practicalities of construction, operation and closure	5.1. Design 5.2. Constructability, demonstration and verification testing 5.3. Security and safeguards 5.4. Operational safety 5.5. Monitoring and Retrievability
6. Siting and licensing	6.1. Establish site selection process and site screening 6.2. Site investigation and confirmation 6.3. Permits and licensing
7. Performance assessment, safety analysis and safety case development	7.1. Safety strategy 7.2. Integration of safety related information 7.3. Safety assessment and tools

The new analysis includes an “X” in the new columns, if the *Programme*, *Course objectives*, *Topics* or the *Learning outcomes* of the course indicates that the Level 1 and/or Level 2 is covered by the course, as is shown in *Figure 1*.

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Course title	EURAD PROJECT Organization	Other applicants Name	Comments	Year	Type of course	Objectives	Duration	Cost	Frequency	Language	Hours/Week	Other/Teachable	Prerequisites	Programme	For alignment										6. Facility design and the practicalities of construction, operation and closure	7. Siting and licensing	7. Performance assessment, safety analysis and safety case development
Final State of the Nuclear Life cycle	ANNETTE KIT <a href="https://joinerit.eu/">https://joinerit.eu/</a> #88														x	x	x	x	x	x	x	x	x	x	x	x	x
Geological Disposal of Radioactive Waste	ANNETTE Uni <a href="http://www.dl.ac.uk/">http://www.dl.ac.uk/</a> #88														x	x	x	x	x	x	x	x	x	x	x	x	x
Nuclear Fuel: from Cradle to Grave	ANNETTE KIT <a href="https://joinerit.eu/">https://joinerit.eu/</a> #88														x	x	x	x	x	x	x	x	x	x	x	x	x
Nuclear Technologies, Nuclear Waste Management and Radioactive Waste Disposal	ENEL SCKCEN <a href="https://eurad.eu/">https://eurad.eu/</a> #88														x	x	x	x	x	x	x	x	x	x	x	x	x
Decommissioning of nuclear installations															x	x	x	x	x	x	x	x	x	x	x	x	x

Figure 1. Fields and descriptors used in the RWM courses database.

Additionally, seven filters, corresponding to the 7 EURAD themes were added, in order to have a functional database. The system of filters lets the user to cross their needs/preferences to look for the adequate course, using the levels of the Roadmap.

In appendix A the actualised database is referenced.

The alignment of courses and the Roadmap is presented in appendixes B-H.

## 4. Final remarks

This report presents an updated analysis and mapping of the available courses related to RWM. In addition, courses organised by EURAD School, have been included, configuring the actualised portfolio of European RWM courses up November 2023. Several sources were analysed as international entities or the open web; including a forensic search through all EURATOM Framework programmes.

Over 160 courses all over Europe have been identified to be related to RWM. More than 61% are framed in European project with a duration of around 1 week, around 80% are Face-To-Face courses and the remaining ones are online. Many of these courses, after the COVID-19 pandemic, nowadays includes some degree of remote delivery or e-learning.

The new analysis of the RWM courses portfolio aligns all courses with the EURAD Roadmap, including its descriptors up to Level 2. The resulting courses' portfolio is presented as a functional database, which is available on EURAD's School of RWM web portal.

## 5. References

1. Belmans N.& Coeck M., (2020): Title. List of training needs from Research, Development and Demonstration and Strategic Studies Work Packages Final version as of 12.04.2021 of deliverable D13.1 of the HORIZON 2020 project EURAD. EC Grant agreement no: 847593.
2. López del Pra C., Llorente C., Marco M., Christiansen B. (2021): Mapping of available course materials of 12/07/2021 of deliverable D13.2 of the HORIZON 2020 project EURAD. EC Grant agreement no: 847593.
3. EURAD Roadmap, extended with Competence Matrix (2021). Final version as of 27.09.2021 deliverable D1.7 of the HORIZON 2020 project EURAD. EC Grant agreement no: 847593.
4. Belmans N., Coeck M., López del Prá C., Llorente Herranz C. (2022): Priority list and schedule for training/mobility Final version as of 05/07/2021 Deliverable D13.4 of the HORIZON 2020 project EURAD. EC Grant agreement no: 847593
5. EUROPEAN COMMISSION. Directorate-General for Research and Innovation. Energy. Fission Energy. Grant Agreement number: 847593 — EURAD — NFRP-2018.
6. EURAD SCHOOL-School of Radioactive Waste Management (RWM). <https://euradschool.eu/>

## **Appendix A. Portfolio (historical and ongoing) courses in radioactive waste management in Europe aligned with the EURAD roadmap**

<https://euradschool.eu/available-historical-courses/>



WP 13.Training and Mobility

**Appendix B. Alignment of the available courses with the roadmap: Theme 1. Managing implementation and oversight of a RWM programme**

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**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 1. Managing implementation and oversight of a RWM programme**

**Table 2. List of courses aligned with Theme 1 of EURAD roadmap: Managing implementation and oversight of a RWM programme.**

#	Course	Link
1	Final Stage of the Nuclear Lifecycle; Project: ANNETTE; Org: KIT and JRC; 5D; EN	<a href="https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en">https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en</a>
2	Geological Disposal at the Josef Experimental Repository (CVUT); Project: ANNETTE; Org: Czech Technical University in Prague (CVUT); 3 d; EN	<a href="https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view">https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view</a>
3	Geological disposal of Radioactive Waste; Project: ANNETTE; Org: Université de Lorraine & Universidad Politecnica de Madrid; 93h; FR,SP	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html</a>
4	Nuclear Fuel: from Cradle to Grave; Project: ANNETTE; Org: KIT and JRC; 1w; EN	<a href="https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf">https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf</a>
5	Nuclear Technology, Nuclear Waste Management and Radiation Protection; Project: ANNETTE; Org: ENENA alto University, University of Turku, Åbo Akademi University; 1 w; EN	<a href="http://annettesummerschool.aalto.fi/">http://annettesummerschool.aalto.fi/</a>
6	Decommissioning of nuclear installations; Project: ENEN/ ELINDER; Org: SCK•CEN; 5 d; EN	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5</a>
7	Advanced Nuclear Waste Management; Project: EURAD-QUESTIONNAIRE; Org: IMT Atlantique; ; EN	<a href="https://www.imt-atlantique.fr/sites/default/files/document/MSc-IMTAtlantique-AdvancedNuclear.pdf">https://www.imt-atlantique.fr/sites/default/files/document/MSc-IMTAtlantique-AdvancedNuclear.pdf</a>
8	Fundamentals of Geological Disposal; Project: EURAD-QUESTIONNAIRE; Org: Grimset Training Centre - Nuclear Training Solutions; 5 d; EN	<a href="http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018">http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018</a>
9	Nuclear Decommissioning, Waste Management and environmental Site Remediation; Project: EURAD-QUESTIONNAIRE; Org: NINE (MMARS); ; EN	<a href="http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation">http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation</a>
10	Radioactive Waste Management; Project: EURAD-QUESTIONNAIRE; Org: CIEMATUPM, ENRESA; 60 h; SP	<a href="http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html">http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html</a>
11	School of Geological Disposal - Basis for developing safe geological disposal; Project: EURAD-QUESTIONNAIRE; Org: SKB; 5 d; EN	<a href="https://www.skb.se/sgd2019/">https://www.skb.se/sgd2019/</a>
12	Storage of radioactive waste (PETRUS); Project: EURAD-QUESTIONNAIRE; Org: Mines Nancy Artem; ; EN	<a href="https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8aj/">https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8aj/</a>
13	International School of Nuclear Law (ISNL); Project: ; Org: NEAUniversity of Montpellier; 2 w; EN	<a href="https://www.oecd-nea.org/jcms/pl_23822/international-school-of-nuclear-law-isnl">https://www.oecd-nea.org/jcms/pl_23822/international-school-of-nuclear-law-isnl</a>
14	Regulatory Review and Assessment of the Safety Case for Disposal Facilities; Project: ; Org: ENSTTI, IRSN; 15 d; EN	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
15	Decommissioning of radioactive and nuclear facilities; Project: ; Org: CIEMAT; 30 h; SP	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=146">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=146</a>
16	Disposal of Radioactive Waste; Project: ; Org: IAEA; 5h; EN, RS	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
17	Fundamentals of RW disposal; Project: ; Org: IAEA; ; EN RS	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
18	Geological Disposal; Project: ; Org: IAEA; 5h; EN	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=356">https://elearning.iaea.org/m2/enrol/index.php?id=356</a>
19	Borehole Disposal; Project: ; Org: IAEA; 3h; EN	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=358">https://elearning.iaea.org/m2/enrol/index.php?id=358</a>
20	Radioactive Waste disposal; Project: ; Org: SCK•CEN; 1w; EN	<a href="https://www.sckcen.be/en/academy/training-courses/personalized-training-courses/customized-training-courses-radioactive-waste-disposal">https://www.sckcen.be/en/academy/training-courses/personalized-training-courses/customized-training-courses-radioactive-waste-disposal</a>
21	Central European School - 9th International School on Nuclear Power in Poland ; Project: VINCO; Org: National Centre for Nuclear Research (NCBJ)(China General Nuclear Power Corporation, EDF, General Electric Hitachi, Korea Hydro & Nuclear Power, SNC-Lavalin, Westinghouse; 4 d; EN	<a href="https://www.ncbj.gov.pl/en/aktualnosci/9th-international-school-nuclear-power">https://www.ncbj.gov.pl/en/aktualnosci/9th-international-school-nuclear-power</a> <a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bc9e695a&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bc9e695a&amp;appId=PPGMS</a>
22	Decommissioning, Radioactive Waste and Environmental Management (SC4110); Project: ANNETTE; Org: University of Central Lancashire Courses; 1 w; EN	<a href="http://www.dimnp.unipi.it/walter-ambrosini/SC4110%20%20ANNETTE%20UCLan%20V15.05.html">http://www.dimnp.unipi.it/walter-ambrosini/SC4110%20%20ANNETTE%20UCLan%20V15.05.html</a>



## WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 1. Managing implementation and oversight of a RWM programme

#	Course	Link
23	Fundamentals of International Nuclear Law (FINL); Project: ; Org: NEA; 9h; EN	<a href="https://www.oecd-nea.org/jcms/pl_50604/fundamentals-of-international-nuclear-law-finl?id=pl_50604&amp;preview=true">https://www.oecd-nea.org/jcms/pl_50604/fundamentals-of-international-nuclear-law-finl?id=pl_50604&amp;preview=true</a>
24	Regulatory review of the safety case for geological disposal; Project: SITEX-II; Org: ENSTIIRSN, NEA; 5 d; EN	<a href="http://sitexproject.eu/index_2.html#workshops">http://sitexproject.eu/index_2.html#workshops</a>
25	Management of the Decommissioning Process (N31); Project: ANNETTE; Org: University of Manchester – NTEC Courses; ; EN	<a href="http://www.ntec.ac.uk/syllabi/N31_syllabus.html">http://www.ntec.ac.uk/syllabi/N31_syllabus.html</a>
26	International Nuclear Law Essentials (INLE); Project: ; Org: NEA University of Montpellier; 5 d; EN	<a href="https://www.oecd-nea.org/jcms/pl_15203/international-nuclear-law-essentials-inle">https://www.oecd-nea.org/jcms/pl_15203/international-nuclear-law-essentials-inle</a>
27	Predisposal & Characterisation of Radioactive Waste; Project: ; Org: ibc nuclear; 3 d; EN	<a href="https://www.rsc.org/events/detail/8436/predisposal-and-characterisation-of-radioactive-waste-course">https://www.rsc.org/events/detail/8436/predisposal-and-characterisation-of-radioactive-waste-course</a>
28	Management of Radioactive Waste; Project: EURAD-QUESTIONNAIRE; Org: Public Health England; ; EN	<a href="https://www.phe-protectionservices.org.uk/cms/article.php?article=340&amp;course=32&amp;details=true&amp;site=RPTS">https://www.phe-protectionservices.org.uk/cms/article.php?article=340&amp;course=32&amp;details=true&amp;site=RPTS</a>
29	Decontamination & dismantling techniques.; Project: INSIDER (ELINDER); Org: KIT; 5 d; EN	<a href="http://insider-h2020.eu/trainingcourses/">http://insider-h2020.eu/trainingcourses/</a>
30	Decommissioning, Radioactive Waste and Environmental Management(N04); Project: ANNETTE; Org: University of Manchester – NTEC Courses; ; EN	<a href="http://www.ntec.ac.uk/syllabi/N04_syllabus.html">http://www.ntec.ac.uk/syllabi/N04_syllabus.html</a>
31	Policy, Regulation and Licensing (N09); Project: ANNETTE; Org: University of Manchester – NTEC Courses; ; EN	<a href="http://www.ntec.ac.uk/syllabi/N09_syllabus.html">http://www.ntec.ac.uk/syllabi/N09_syllabus.html</a>
32	Technical Concepts, Techniques, Methods and Tools for the Assessment of Nuclear Safety and Radiation Protection; Project: ; Org: ENSTI, IRSN; 3 w; EN	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
33	Regulatory Control of the Safety of Spent Fuel & Radioactive Waste Management; Project: ; Org: ENSTI, IRSN; 5 d; EN	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
34	Regulatory Control of Radiation Sources; Project: ; Org: ENSTI, IRSN; 5 d; EN	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
35	The Legal and Regulatory Basis for Nuclear and Radiation Safety; Project: ; Org: ENSTI, IRSN; 5 d; EN	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
36	EERRI Research Reactor Group Fellowship Programme; Project: VINCO; Org: Centre for Energy Research, Hungarian Academy of Sciences with Institute of Nuclear Techniques of Budapest University of Technology and Economics; 1.5 m; EN	<a href="https://nucleus.iaea.org/sites/connect/RRIHpublic/Pages/EERRI-Group-Fellowship.aspx">https://nucleus.iaea.org/sites/connect/RRIHpublic/Pages/EERRI-Group-Fellowship.aspx</a>
37	Application of Nuclear Safety Concepts in the Development of Regulations and Guidance; Project: ; Org: ENSTI, IRSN; 6 d; EN	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
38	State-of-the-art computer codes; Project: ; Org: NEA; Duration variable; EN	<a href="https://www.oecd-nea.org/jcms/pl_52270/training-courses-on-state-of-the-art-computer-codes">https://www.oecd-nea.org/jcms/pl_52270/training-courses-on-state-of-the-art-computer-codes</a>
39	Radiation Protection and Confinement Systems; Project: ; Org: ENSTI, IRSN; 5 d; SP	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
40	Regulatory Control of Nuclear Sites: Inspection of Safety Systems, Structures and Components; Project: ; Org: ENSTI, IRSN; 5 d; EN	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
41	Nuclear Waste Management; Project: ; Org: CEA, ENEN; 1 w; EN	<a href="https://instn.cea.fr/formation/nuclear-waste-management-international-school-in-nuclear-engineering/">https://instn.cea.fr/formation/nuclear-waste-management-international-school-in-nuclear-engineering/</a>
42	Nuclear Safety with respect to radioactive waste management facilities; Project: ; Org: TUV; 2 d; EN	<a href="https://www.tuvsud.com/it-it/store/italia/english-training/nuclear-english-courses/nuclear-safety-with-respect-to-radioactive-waste-management-facilities">https://www.tuvsud.com/it-it/store/italia/english-training/nuclear-english-courses/nuclear-safety-with-respect-to-radioactive-waste-management-facilities</a>
43	Planning for Environmental Remediation; Project: ; Org: IAEA; 4h ; EN	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=500">https://elearning.iaea.org/m2/enrol/index.php?id=500</a>
44	Nuclear Materials Protection, Nuclear Safeguards and Interface with Nuclear Safety; Project: ; Org: ENSTI, IRSN; 5 d; EN	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
45	Computer Control of Experiments; Project: VINCO; Org: CTU Prague, FNSPE; ; EN	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06dd05f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06dd05f&amp;appId=PPGMS</a>



**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 1. Managing implementation and oversight of a RWM programme**

#	Course	Link
46	Metrology for Waste Characterization and Clearance; Project: ; Org: JRC; 5 d; EN	<a href="https://ec.europa.eu/jrc/en/training-programme/metrology-waste-characterization-and-clearance-elinder-course-s7">https://ec.europa.eu/jrc/en/training-programme/metrology-waste-characterization-and-clearance-elinder-course-s7</a>
47	How does corrosion influence the health of concrete?; Project: ; Org: IETCC; 2 h; SP	<a href="https://www.ietcc.csic.es/noticias/como-influye-la-corrosion-en-la-salud-del-hormigon-how-does-corrosion-influence-the-health-of-concrete/">https://www.ietcc.csic.es/noticias/como-influye-la-corrosion-en-la-salud-del-hormigon-how-does-corrosion-influence-the-health-of-concrete/</a>
48	Regulatory Control of Radiation Protection in Mining and Minerals Processing Facilities and Activities; Project: ; Org: ENSTTI, IRSN; 5 d; EN	<a href="https://enstti.eu/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
49	Nuclear Waste Management; Project: ENEN; Org: CEA; 5 d; EN	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=42">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=42</a>
50	Material and waste management in decommissioning; Project: INSIDER (ELINDER); Org: CEA-INSTN; ; EN	<a href="http://insider-h2020.eu/trainingcourses/">http://insider-h2020.eu/trainingcourses/</a>
51	Application of International Regulations in Qualification and Approval of Packages for the Transport of Radioactive Materials; Project: ; Org: ENSTTI, IRSN; 5 d; EN	<a href="https://enstti.eu/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
52	Digital Safety Systems of Nuclear Reactors; Project: VINCO; Org: CTU Prague, FNSPE; ; EN	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5&amp;appId=PPGMS</a>
53	Nuclear Safety Case Development (N07); Project: ANNETTE; Org: University of Manchester – NTEC Courses; ; EN	<a href="http://www.ntec.ac.uk/syllabi/N07_syllabus.html">http://www.ntec.ac.uk/syllabi/N07_syllabus.html</a>
54	Regulatory Issues and Standards(PETRUS); Project: ENEN/PETRUS; Org: ITC; ; EN	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=82">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=82</a>
55	Implementing Nuclear Safeguards in practice; Project: ; Org: ENSTTI, IRSN; 5 d; EN	<a href="https://enstti.eu/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
56	Environmental Remediation; Project: ; Org: IAEA; 4h; EN	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=500">https://elearning.iaea.org/m2/enrol/index.php?id=500</a>
57	Control systems of Nuclear Reactors; Project: VINCO; Org: CTU Prague, FNSPE; 9 m; EN	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5&amp;appId=PPGMS</a>
58	Radioactive Waste Management; Project: ; Org: SCK•CEN; 1.5 w; EN	<a href="https://www.sckcen.be/en/node/843">https://www.sckcen.be/en/node/843</a>
59	Predisposal RW Management; Project: ; Org: IAEA; ; EN	<a href="https://elearning.iaea.org/m2/course/index.php?categoryId=60">https://elearning.iaea.org/m2/course/index.php?categoryId=60</a>
60	Processing, Storage and Disposal of Nuclear Wastes (N10); Project: ANNETTE; Org: University of Manchester – NTEC Courses; ; EN	<a href="http://www.ntec.ac.uk/syllabi/N10_syllabus.html">http://www.ntec.ac.uk/syllabi/N10_syllabus.html</a>
61	Decommissioning Implementation; Project: ; Org: IAEA; 5h; EN, JP	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=518">https://elearning.iaea.org/m2/enrol/index.php?id=518</a>
62	Online Summer School on Nuclear decommissioning and Waste Management; Project: ELINDER; Org: Joint Research Centre (JRC); 5d; EN	<a href="https://ec.europa.eu/jrc/en/event/training-course/ndwm-summer-school">https://ec.europa.eu/jrc/en/event/training-course/ndwm-summer-school</a>
63	Spent Fuel Storage; Project: ; Org: IAEA; 5h; EN, JP	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=561">https://elearning.iaea.org/m2/enrol/index.php?id=561</a>
64	Technical and managing staff; Project: VINCO; Org: VUJE a.s.; 480 h; EN	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
65	JOPRAD – Towards a Joint Programming on Radioactive Waste; Project: SITEX-II; Org: JOPRAD; 2 d; EN	<a href="http://sitexproject.eu/index_2.html#workshops_201609">http://sitexproject.eu/index_2.html#workshops_201609</a>
66	The chemistry of f-elements; Project: ; Org: TU Dresden and other institutions from: USA, Russia, France, Germany; 1 w; EN	<a href="https://tu-dresden.de/mn/chemie/ac/ac3/die-professor/news/international-autumn-school-the-chemistry-of-f-elements-1">https://tu-dresden.de/mn/chemie/ac/ac3/die-professor/news/international-autumn-school-the-chemistry-of-f-elements-1</a>
67	The ThUL School in Actinide Chemistry; Project: ; Org: HZDR (organized by different institutes every year) and several researcher centers & universities; 1 w; EN	<a href="https://www.hzdr.de/db/Cms?pOld=44510&amp;pNid=3488">https://www.hzdr.de/db/Cms?pOld=44510&amp;pNid=3488</a>
68	Conditioning, disposal & final disposal of radioactive waste; Project: ; Org: AiNT; 4 d; GR	<a href="https://www.nuclear-training.de/seminar-details/modul-6-1210.html">https://www.nuclear-training.de/seminar-details/modul-6-1210.html</a>
69	Radioactive material transport; Project: ; Org: CIEMAT; 30h; SP	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=154">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=154</a>
70	ENEN+ Summer School; Project: ENEN+; Org: ENEN+ and Budapest University of Technology and Economics; 1 w; EN	<a href="https://summerschool2020.enen.bme.hu/">https://summerschool2020.enen.bme.hu/</a>

**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 1. Managing implementation and oversight of a RWM programme**

#	Course	Link
71	Geological disposal of radioactive waste; Project: EURAD-QUESTIONNAIRE; Org: Université de Lorraine; 30 h; EN	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html</a>
72	Virtual First Tritium School; Project: TRANSAT; Org: Jožef Stefan Institute; 2 d; EN	<a href="http://transat-h2020.eu/wp-content/uploads/2018/08/TRANSAT-1st-SUMMER-SCHOOL.pdf">http://transat-h2020.eu/wp-content/uploads/2018/08/TRANSAT-1st-SUMMER-SCHOOL.pdf</a>
73	Nuclear fuel cycle; Project: ANNETTE; Org: The Belgian Nuclear Education Network; 81h; EN	<a href="https://bnen.sckcen.be/courses/advanced-courses-nuclear-fuel-cycle">https://bnen.sckcen.be/courses/advanced-courses-nuclear-fuel-cycle</a>
74	Nuclear Engineering ; Project: ENEN; Org: INSTN/CEA; 5 d; EN	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=4">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=4</a>
75	FIRST-Nuclides project; Project: FIRST-Nuclides; Org: KIT-INEJRC; 2 d; EN	<a href="http://www.firstnuclides.eu/ZonaPublica/FIRST-Nuclides-training-course-announcement_v3.pdf">http://www.firstnuclides.eu/ZonaPublica/FIRST-Nuclides-training-course-announcement_v3.pdf</a>
76	MSR Summer school; Project: SAMOFAR; Org: ; 3 d; EN	<a href="http://samofar.eu/summerschool/">http://samofar.eu/summerschool/</a>
77	Introduction to Nuclear Reactor Physics; Project: VINCO; Org: CTU Prague, FNSPE; ; EN	<a href="https://ec.europa.eu/research/participants/documents/download?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/download?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
78	Nuclear Fuel Cycle (N02); Project: ANNETTE; Org: University of Manchester – NTEC Courses; ; EN	<a href="http://www.ntec.ac.uk/syllabi/N02_syllabus.html">http://www.ntec.ac.uk/syllabi/N02_syllabus.html</a>
79	Nuclear Fuel Cycle; Project: ENEN; Org: INSTN/CEA; 66 h (10 d); EN	<a href="https://instn.cea.fr/en/formation/nuclear-fuel-cycle/">https://instn.cea.fr/en/formation/nuclear-fuel-cycle/</a>
80	Nuclear Waste Management; Project: ENEN; Org: CEA; 5 d; EN	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=20">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=20</a>
81	Nuclear Fuel from ore to Waste; Project: ENEN/GENTLE; Org: DUT; 80h; EN	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=19">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=19</a>
82	Technology and Management of the Decommissioning of Nuclear Facilities; Project: ANNETTE; Org: KIT ; ; EN	<a href="http://www.fps.kit.edu/465.php">http://www.fps.kit.edu/465.php</a>
83	Management of Radioactive Waste in Accordance with IAEA Safety Standards and International Best Practice(PETRUS); Project: ENEN/PETRUS; Org: Technische Universität Clausthal Institut für Endlagerforschung; ; EN	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=109">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=109</a>
84	Nuclear Knowledge Management orientation course; Project: ; Org: IAEA; 1h; EN	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=437">https://elearning.iaea.org/m2/enrol/index.php?id=437</a>
85	Policies, Strategies and Prerequisites for Radioactive Waste Management; Project: ; Org: IAEA; 6h; EN, RS	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=355">https://elearning.iaea.org/m2/enrol/index.php?id=355</a>





#### WP 13.Training and Mobility

### **Appendix C. Alignment of the available courses with the roadmap: Theme 2. RW characterisation, processing and storage, and source term understanding for disposal**

This project has received funding from the European Union's Horizon 2020 research and innovation programme 2014-2018 under grant agreement N°847593



**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 2. RW characterization, processing and storage, and source term understanding for disposal**

Table 3. List of courses aligned with Theme 2 of EURAD roadmap: RW characterisation, processing and storage, and source term understanding for disposal.

#	Course	Link
1	Final Stage of the Nuclear Lifecycle Project: ANNETTE; Org: KIT and JRC; EN; 5d	<a href="https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en">https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en</a>
2	Geological Disposal at the Josef Experimental Repository (CVUT) Project: ANNETTE; Org: Czech Technical University in Prague (CVUT); EN; 3 d	<a href="https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view">https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view</a>
3	Geological disposal of Radioactive Waste Project: ANNETTE; Org: Université de Lorraine & Universidad Politecnica de Madrid; FR, SP; 93h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html</a>
4	Nuclear Fuel: from Cradle to Grave Project: ANNETTE; Org: KIT and JRC; EN; 1w	<a href="https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf">https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf</a>
5	Nuclear Technology, Nuclear Waste Management and Radiation Protection Project: ANNETTE; Org: ENEN Aalto University, University of Turku, Åbo Akademi University; EN; 1 w	<a href="http://annettesummerschool.aalto.fi/">http://annettesummerschool.aalto.fi/</a>
6	Decommissioning of nuclear installations Project: ENEN/ ELINDER; Org: SCK•CEN ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5</a>
7	Advanced Nuclear Waste Management Project: EURAD-QUESTIONNAIRE; Org: IMT Atlantique ; EN;	<a href="https://www.imt-atlantique.fr/sites/default/files/document/MSC-IMTAtlantique-AdvancedNuclear.pdf">https://www.imt-atlantique.fr/sites/default/files/document/MSC-IMTAtlantique-AdvancedNuclear.pdf</a>
8	Fundamentals of Geological Disposal Project: EURAD-QUESTIONNAIRE; Org: Grimsel Training Centre - Nuclear Training Solutions ; EN; 5 d	<a href="http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018">http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018</a>
9	Nuclear Decommissioning, Waste Management and Environmental Site Remediation Project: EURAD-QUESTIONNAIRE; Org: NINE (MMARS) ; EN;	<a href="http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation">http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation</a>
10	Radioactive Waste Management Project: EURAD-QUESTIONNAIRE; Org: CIEMAT UPM, ENRESA; SP; 60 h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html">http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html</a>
11	School of Geological Disposal - Basis for developing safe geological disposal Project: EURAD-QUESTIONNAIRE; Org: SKB ; EN; 5 d	<a href="https://www.skb.se/sgd2019/">https://www.skb.se/sgd2019/</a>
12	Storage of radioactive waste (PETRUS) Project: EURAD-QUESTIONNAIRE; Org: Mines Nancy Artem ; EN;	<a href="https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8ai/">https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8ai/</a>
13	International School of Nuclear Law (ISNL) Project: ; Org: NEA University of Montpellier; EN; 2 w	<a href="https://www.oecd-nea.org/jcms/pl_23822/international-school-of-nuclear-law-isnl">https://www.oecd-nea.org/jcms/pl_23822/international-school-of-nuclear-law-isnl</a>
14	Regulatory Review and Assessment of the Safety Case for Disposal Facilities Project: ; Org: ENSTI, IRSN ; EN; 15 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
15	Decommissioning of radioactive and nuclear facilities Project: ; Org: CIEMAT ; SP; 30 h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=146">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=146</a>
16	Disposal of Radioactive Waste Project: ; Org: IAEA ; EN, RS; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
17	Fundamentals of RW disposal Project: ; Org: IAEA ; EN RS;	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
18	Central European School - 9th International School on Nuclear Power in Poland Project: VINCO; Org: National Centre for Nuclear Research (NCBJ) (China General Nuclear Power Corporation, EDF, General Electric Hitachi, Korea Hydro & Nuclear Power, SNC-Lavalin, Westinghouse; EN; 4 d	<a href="https://www.ncbi.gov.pl/en/aktualnosci/9th-international-school-nuclear-power">https://www.ncbi.gov.pl/en/aktualnosci/9th-international-school-nuclear-power</a> <a href="https://ec.europa.eu/research/participants/documents/download/Public?documentId=080166e5bc9e695a&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/download/Public?documentId=080166e5bc9e695a&amp;appId=PPGMS</a>
19	Decommissioning, Radioactive Waste and Environmental Management (SC4110) Project: ANNETTE; Org: University of Central Lancashire Courses; EN; 1 w	<a href="http://www.dimnp.unipi.it/walter-ambrosini/SC4110%20%20ANNETTE%20UCLan%20V15.05.html">http://www.dimnp.unipi.it/walter-ambrosini/SC4110%20%20ANNETTE%20UCLan%20V15.05.html</a>
20	Fundamentals of International Nuclear Law (FINL) Project: ; Org: NEA ; EN; 9h	<a href="https://www.oecd-nea.org/jcms/pl_50604/fundamentals-of-international-nuclear-law-finl?id=pl_50604&amp;preview=true">https://www.oecd-nea.org/jcms/pl_50604/fundamentals-of-international-nuclear-law-finl?id=pl_50604&amp;preview=true</a>
21	Management of the Decommissioning Process (N31) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N31_syllabus.html">http://www.ntec.ac.uk/syllabi/N31_syllabus.html</a>



**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 2. RW characterization, processing and storage, and source term understanding for disposal**

#	Course	Link
22	International Nuclear Law Essentials (INLE) Project: ; Org: NEA University of Montpellier ; EN; 5 d	<a href="https://www.oecd-nea.org/jcms/pl_15203/international-nuclear-law-essentials-inle">https://www.oecd-nea.org/jcms/pl_15203/international-nuclear-law-essentials-inle</a>
23	Predisposal & Characterisation of Radioactive Waste Project: ; Org: ibc nuclear ; EN; 3 d	<a href="https://www.rsc.org/events/detail/8436/predisposal-and-characterisation-of-radioactive-waste-course">https://www.rsc.org/events/detail/8436/predisposal-and-characterisation-of-radioactive-waste-course</a>
24	Decommissioning, Radioactive Waste and Environmental Management(N04) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N04_syllabus.html">http://www.ntec.ac.uk/syllabi/N04_syllabus.html</a>
25	Technical Concepts, Techniques, Methods and Tools for the Assessment of Nuclear Safety and Radiation Protection Project: ; Org: ENSTI, IRSN ; EN; 3 w	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
26	Regulatory Control of the Safety of Spent Fuel & Radioactive Waste Management Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
27	EERRI Research Reactor Group Fellowship Programme Project: VINCO; Org: Centre for Energy Research, Hungarian Academy of Sciences with Institute of Nuclear Techniques of Budapest University of Technology and Economics ; EN; 1.5 m	<a href="https://nucleus.iaea.org/sites/connect/RRIpublic/Pages/EERRI-Group-Fellowship.aspx">https://nucleus.iaea.org/sites/connect/RRIpublic/Pages/EERRI-Group-Fellowship.aspx</a>
28	Nuclear Waste Management Project: ; Org: CEA, ENEN ; EN; 1 w	<a href="https://instn.cea.fr/formation/nuclear-waste-management-international-school-in-nuclear-engineering/">https://instn.cea.fr/formation/nuclear-waste-management-international-school-in-nuclear-engineering/</a>
29	Nuclear Safety with respect to radioactive waste management facilities Project: ; Org: TUV ; EN; 2 d	<a href="https://www.tuvsgd.com/it-it/store/italia/english-training/nuclear-english-courses/nuclear-safety-with-respect-to-radioactive-waste-management-facilities">https://www.tuvsgd.com/it-it/store/italia/english-training/nuclear-english-courses/nuclear-safety-with-respect-to-radioactive-waste-management-facilities</a>
30	Planning for Environmental Remediation Project: ; Org: IAEA ; EN; 4h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=500">https://elearning.iaea.org/m2/enrol/index.php?id=500</a>
31	Metrology for Waste Characterization and Clearance Project: ; Org: JRC ; EN; 5 d	<a href="https://ec.europa.eu/irc/en/training-programme/metrology-waste-characterization-and-clearance-elinder-course-s7">https://ec.europa.eu/irc/en/training-programme/metrology-waste-characterization-and-clearance-elinder-course-s7</a>
32	Nuclear Waste Management Project: ENEN; Org: CEA ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=42">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=42</a>
33	Material and waste management in decommissioning Project: INSIDER (ELINDER); Org: CEA-INSTN ; EN;	<a href="http://insider-h2020.eu/trainingcourses/">http://insider-h2020.eu/trainingcourses/</a>
34	Application of International Regulations in Qualification and Approval of Packages for the Transport of Radioactive Materials Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
35	Environmental Remediation Project: ; Org: IAEA ; EN; 4h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=500">https://elearning.iaea.org/m2/enrol/index.php?id=500</a>
36	Radioactive Waste Management Project: ; Org: SCK•CEN ; EN; 1.5 w	<a href="https://www.sckcen.be/en/node/843">https://www.sckcen.be/en/node/843</a>
37	Processing, Storage and Disposal of Nuclear Wastes (N10) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N10_syllabus.html">http://www.ntec.ac.uk/syllabi/N10_syllabus.html</a>
38	Decommissioning Implementation Project: ; Org: IAEA ; EN, JP; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=518">https://elearning.iaea.org/m2/enrol/index.php?id=518</a>
39	Online Summer School on Nuclear decommissioning and Waste Management Project: ELINDER; Org: Joint Research Centre (JRC) ; EN; 5d	<a href="https://ec.europa.eu/irc/en/event/training-course/ndwm-summer-school">https://ec.europa.eu/irc/en/event/training-course/ndwm-summer-school</a>
40	Spent Fuel Storage Project: ; Org: IAEA ; EN, Japanese; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=561">https://elearning.iaea.org/m2/enrol/index.php?id=561</a>
41	JOPRAD – Towards a Joint Programming on Radioactive Waste Project: SITEX-II; Org: JOPRAD ; EN; 2 d	<a href="http://siteproject.eu/index_2.html#workshops_201609">http://siteproject.eu/index_2.html#workshops_201609</a>
42	The chemistry of f-elements Project: ; Org: TU Dresden Other institutions from: USA, Russia, France, Germany; EN; 1 w	<a href="https://tu-dresden.de/mn/chemie/ac/ac3/die-professur/news/international-autumn-school-the-chemistry-of-f-elements-1">https://tu-dresden.de/mn/chemie/ac/ac3/die-professur/news/international-autumn-school-the-chemistry-of-f-elements-1</a>
43	The ThUL School in Actinide Chemistry Project: ; Org: HZDR (organized by different institutes every year) Several researcher centers & universities; EN; 1 w	<a href="https://www.hzdr.de/db/Cms?pOid=44510&amp;pNid=3488">https://www.hzdr.de/db/Cms?pOid=44510&amp;pNid=3488</a>
44	Conditioning, disposal & final disposal of radioactive waste Project: ; Org: AiNT ; GR; 4 d	<a href="https://www.nuclear-training.de/seminar-details/modul-6-1210.html">https://www.nuclear-training.de/seminar-details/modul-6-1210.html</a>
45	Radioactive material transport Project: ; Org: CIEMAT ; SP; 30h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=154">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=154</a>

**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 2. RW characterization, processing and storage, and source term understanding for disposal**

#	Course	Link
46	ENEN+ Summer School Project: ENEN+; Org: ENEN+ Budapest University of Technology and Economics; EN; 1 w	<a href="https://summerschool2020.enen.bme.hu/">https://summerschool2020.enen.bme.hu/</a>
47	Geological disposal of radioactive waste Project: EURAD-QUESTIONNAIRE; Org: Université de Lorraine ; EN; 30 h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html</a>
48	Virtual First Tritium School Project: TRANSAT; Org: Jožef Stefan Institute ; EN; 2 d	<a href="http://transat-h2020.eu/wp-content/uploads/2018/08/TRANSAT-1st-SUMMER-SCHOOL.pdf">http://transat-h2020.eu/wp-content/uploads/2018/08/TRANSAT-1st-SUMMER-SCHOOL.pdf</a>
49	Nuclear fuel cycle Project: ANNETTE; Org: The Belgian Nuclear Education Network; EN; 81h	<a href="https://bnen.sckcen.be/courses/advanced-courses-nuclear-fuel-cycle">https://bnen.sckcen.be/courses/advanced-courses-nuclear-fuel-cycle</a>
50	Nuclear Engineering Project: ENEN; Org: INSTN/CEA ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=4">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=4</a>
51	FIRST-Nuclides project Project: FIRST-Nuclides; Org: KIT-INE JRC; EN; 2 d	<a href="http://www.firstnuclides.eu/ZonaPublica/FIRST-Nuclides-training-course-announcement_v3.pdf">http://www.firstnuclides.eu/ZonaPublica/FIRST-Nuclides-training-course-announcement_v3.pdf</a>
52	MSR Summer school Project: SAMOFAR; Org: ; EN; 3 d	<a href="http://samofar.eu/summerschool/">http://samofar.eu/summerschool/</a>
53	Introduction to Nuclear Reactor Physics Project: VINCO; Org: CTU Prague, FNSPE ; EN;	<a href="https://ec.europa.eu/research/participants/documents/download/Public?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/download/Public?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
54	Nuclear Fuel Cycle (N02) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N02_syllabus.html">http://www.ntec.ac.uk/syllabi/N02_syllabus.html</a>
55	Nuclear Fuel Cycle Project: ENEN; Org: INSTN/CEA ; EN; 66 h (10 d)	<a href="https://instn.cea.fr/en/formation/nuclear-fuel-cycle/">https://instn.cea.fr/en/formation/nuclear-fuel-cycle/</a>
56	Nuclear Waste Management Project: ENEN; Org: CEA ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=20">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=20</a>
57	Nuclear Fuel from ore to Waste Project: ENEN/GENTLE; Org: DUT ; EN; 80h	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=19">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=19</a>
58	Fundamentals of geological disposal (PETRUS) Project: ENEN/PETRUS; Org: ITC ; EN; 10 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=89">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=89</a>
59	Decommissioning of Nuclear Facilities Project: none; Org: Czech Technical University in Prague ; CZ; 3 y	<a href="https://www.fjfi.cvut.cz/en/education/bachelor-s-study/fields-of-bachelor-programme-new/decommissioning-of-nuclear-facilities-bc">https://www.fjfi.cvut.cz/en/education/bachelor-s-study/fields-of-bachelor-programme-new/decommissioning-of-nuclear-facilities-bc</a>
60	Near Surface Disposal Project: ; Org: IAEA ; EN; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=354">https://elearning.iaea.org/m2/enrol/index.php?id=354</a>
61	DOT/NRC Radioactive Waste Packaging, Transportation and Disposal Project: ; Org: EnergySolutions ; EN; 32 h	<a href="https://www.energysolutionstraining.com/core/files/energysolutions/training/uploads/files/Course%20Catalog(3).pdf">https://www.energysolutionstraining.com/core/files/energysolutions/training/uploads/files/Course%20Catalog(3).pdf</a>
62	Monitoring in Geological Disposal of Radioactive Waste Project: Modern2020; Org: Åspö Hard Rock Laboratory, Sweden. ; EN; 5 d	<a href="http://www.modern2020.eu/training/learning-outcomes.html">http://www.modern2020.eu/training/learning-outcomes.html</a>
63	Emergency Response to Transport Accidents involving Radioactive Materials at Sea and in Port Zones Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
64	Nuclear Energy and The Nuclear Fuel Cycle Project: ANNETTE; Org: University of Central Lancashire Courses; EN; 2 w	<a href="http://www.dimnp.unipi.it/walter-ambrosini/SC4101%20%20ANNETTE%20UCLan%20V15.05.html">http://www.dimnp.unipi.it/walter-ambrosini/SC4101%20%20ANNETTE%20UCLan%20V15.05.html</a>
65	CRISTAL - Tools for Criticality Safety Calculation Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
66	Thermochemical Database (TDB) Project course: Thermodynamic data collection and assessment Project: ; Org: NEA KIT-INE, LANL; A21, EMPA; EN; 2 d	<a href="https://www.oecd-nea.org/upload/docs/application/pdf/2020-09/outline_course_paris_2020.pdf">https://www.oecd-nea.org/upload/docs/application/pdf/2020-09/outline_course_paris_2020.pdf</a>
67	Theramin technical training school Project: THERAMIN; Org: CEA EDF; EN; 3 d	<a href="http://www.theramin-h2020.eu/downloads/THERAMIN%20Training%20school%20flyer.pdf">http://www.theramin-h2020.eu/downloads/THERAMIN%20Training%20school%20flyer.pdf</a>
68	C-14 behaviour under repository conditions Project: CAST; Org: KIT-INE WAK-HDB; EN; 2 d	<a href="https://www.projectcast.eu/cms-file/get/iFileId/2522">https://www.projectcast.eu/cms-file/get/iFileId/2522</a>
69	Plug and Seal Training Workshop Project: DOPAS; Org: CTU POSIVA; EN; 5 d	<a href="https://posiva.fi/dopas/files/4375/DOPAS_Deliverable_D7_2_Plug_and_Seal_Training_Workshop_planning_and_implementation_report_.pdf">https://posiva.fi/dopas/files/4375/DOPAS_Deliverable_D7_2_Plug_and_Seal_Training_Workshop_planning_and_implementation_report_.pdf</a>

## WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 2. RW characterization, processing and storage, and source term understanding for disposal

#	Course	Link
70	Introduction to safety assessment in geological disposal of spent fuel - advanced sessions (PETRUS II) Project: ENEN/PETRUS II; Org: POSIVA ; FN; 4 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=100">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=100</a>
71	Mechanical measurements of irradiated materials Project: VINCO; Org: National Centre for Nuclear Research (NCBJ) JAEA; EN; 2 d	<a href="https://ec.europa.eu/research/participants/documents/download/Public?documentIds=080166e5bd507a32&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/download/Public?documentIds=080166e5bd507a32&amp;appId=PPGMS</a>
72	Numerical simulation in long-term safety analysis - probabilistic methods(PETRUS) Project: ENEN/PETRUS; Org: Technische Universität Clausthal; Institut für Endlagerforschung ; EN;	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=117">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=117</a>
73	Desused Sealed Radioactive sources Project: ; Org: IAEA ; EN, SP,FR; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=376">https://elearning.iaea.org/m2/enrol/index.php?id=376</a>
74	New Nuclear Sources Project: VINCO; Org: CTU Prague, FNSPE ; EN;	<a href="https://ec.europa.eu/research/participants/documents/download/Public?documentIds=080166e5b06d05f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/download/Public?documentIds=080166e5b06d05f&amp;appId=PPGMS</a>
75	Nuclear Waste Management – International school in nuclear engineering Project: EURAD-QUESTIONNAIRE; Org: CEA ; EN; 5 d (30 h)	<a href="http://www-instn.cea.fr/en/education-and-training/continuing-education/short-courses/international-school-in-nuclear-engineering-nuclear-waste-management_1936959.html">http://www-instn.cea.fr/en/education-and-training/continuing-education/short-courses/international-school-in-nuclear-engineering-nuclear-waste-management_1936959.html</a>
76	Nuclear fuel cycle Project: ANNETTE; Org: The Belgian Nuclear Education Network; EN; 90 h	<a href="https://bnen.sckcen.be/courses/nuclear-fuel-cycle">https://bnen.sckcen.be/courses/nuclear-fuel-cycle</a>
77	Actinide Science & Applications Project: ; Org: JRC and other international organisations; EN; 1 w	<a href="https://www.eumonitor.eu/9353000/1/j9vvik7m1c3gyxp/vrb78660typ?ctx=vh77iy5icpmz&amp;v=1&amp;tab=1&amp;start_tab1=50">https://www.eumonitor.eu/9353000/1/j9vvik7m1c3gyxp/vrb78660typ?ctx=vh77iy5icpmz&amp;v=1&amp;tab=1&amp;start_tab1=50</a>
78	Radioactive Waste Cementation Project: ; Org: ICTP-IAEA AEA, PNNL, CEA, Savannah River National, NEFW, Imperial College London, IGEM RAS, USDF, Kazan State University, VNIINM; EN; 14 d	<a href="http://indico.ictp.it/event/9129/overview">http://indico.ictp.it/event/9129/overview</a>
79	Safety advisor in the transport of radioactive material Project: ; Org: Ecoquímica Logística Integral ; EN;	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=210">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=210</a>
80	Geological disposal of Radioactive Waste Project: ANNETTE; Org: Université de Lorraine & Universidad Politecnica de Madrid; EN; 30h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html</a>
81	Hands on training in nuclear chemistry Project: CINCH; Org: CVUT ; EN;	<a href="https://www.cinch-project.eu/cinch2/data/CINCH_I/docs_I/CINCH_Hands_on_121116.pdf">https://www.cinch-project.eu/cinch2/data/CINCH_I/docs_I/CINCH_Hands_on_121116.pdf</a>
82	Modern Spent Fuel Dissolution and Chemistry in Failed Container Conditions Project: EURAD-QUESTIONNAIRE; Org: DISCO ; EN;	<a href="https://www.disco-h2020.eu/Home/GeneralInformation">https://www.disco-h2020.eu/Home/GeneralInformation</a>
83	Characterization of Radioactive Waste Project: ; Org: CIEMAT ; SP; 30h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=147">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=147</a>
84	Virtual Second Tritium School Project: TRANSAT; Org: Aix-Marseille University, France Jožef Stefan Institute, Slovenia; CEA, France; EN; 5 d	<a href="http://transat-h2020.eu/transat-second-tritium-school/">http://transat-h2020.eu/transat-second-tritium-school/</a>
85	From nuclear data to a reliable estimate of spent fuel decay heat Project: ENEN; Org: SCK•CEN ; EN; 1 d	<a href="https://www.sckcen.be/en/events-courses/topical-day-nuclear-data-reliable-estimate-spent-fuel-decay-heat-b0781b76-342fe711-80c1-ecf4bbc6e827">https://www.sckcen.be/en/events-courses/topical-day-nuclear-data-reliable-estimate-spent-fuel-decay-heat-b0781b76-342fe711-80c1-ecf4bbc6e827</a>
86	Bentonite training course Project: PEBS; Org: BGR ; EN; 4 d	<a href="https://www.pebs.eu/PEBS/EN/Events/events_inhalt_en.html?nn=1797144#link2">https://www.pebs.eu/PEBS/EN/Events/events_inhalt_en.html?nn=1797144#link2</a>
87	REDUPP Lecture Series (x9) Project: REDUPP; Org: Several ; EN; 4 d	<a href="https://www.skb.se/redupp/training/">https://www.skb.se/redupp/training/</a>
88	Characterisation of conditioned radioactive waste: status, challenges and new developments Project: CHANCE; Org: SCK•CEN Academy; EN; 1 d	<a href="https://www.chance-h2020.eu/deliverable/1452/attachment/0">https://www.chance-h2020.eu/deliverable/1452/attachment/0</a>
89	Nuclear Fuel Cycle and Reprocessing Project: ENEN; Org: CEA ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=22">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=22</a>
90	Environmental Remediation and Site Release Project: INSIDER (ELINDER); Org: University of Birmingham in, collaboration with the IAEA; EN;	<a href="http://insider-h2020.eu/trainingcourses/">http://insider-h2020.eu/trainingcourses/</a>
91	Metrology for Radioactive Waste Characterisation and Clearance Project: INSIDER (ELINDER); Org: Joint Research Centre (JRC) ; EN; 5 d	<a href="http://insider-h2020.eu/trainingcourses/">http://insider-h2020.eu/trainingcourses/</a>
92	Nuclear Fuel Characterization Project: MEET CINCH; Org: CHALMERS ASGARD project; EN;	<a href="https://eshop.cinch-project.eu/Chemistry-of-the-nuclear-fuel-cycle-and-waste-management/products/Nuclear-Fuel-Characterization/13">https://eshop.cinch-project.eu/Chemistry-of-the-nuclear-fuel-cycle-and-waste-management/products/Nuclear-Fuel-Characterization/13</a>

**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 2. RW characterization, processing and storage, and source term understanding for disposal**

#	Course	Link
93	Introductory course on EURAD and Radioactive Waste Management Project: EURAD; Org: EURAD WP 13 ; EN; 1D	<a href="https://euradschool.eu/event/eurad_and_radioactive_waste_management/">https://euradschool.eu/event/eurad_and_radioactive_waste_management/</a>





WP 13.Training and Mobility

**Appendix D. Alignment of the available courses with the roadmap: Theme 3. Engineered barrier system properties, function and long-term performance**

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**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 3. Engineered barrier system properties, function and long-term performance**

Table 4. List of courses aligned with Theme 3 of EURAD roadmap: Engineered barrier system properties, function and long-term performance.

#	Course	Link
1	Final Stage of the Nuclear Lifecycle Project: ANNETTE; Org: KIT and JRC; EN; 5D	<a href="https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en">https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en</a>
2	Geological Disposal at the Josef Experimental Repository (CVUT) Project: ANNETTE; Org: Czech Technical University in Prague (CVUT); EN; 3 d	<a href="https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view">https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view</a>
3	Geological disposal of Radioactive Waste Project: ANNETTE; Org: Université de Lorraine & Universidad Politécnica de Madrid; FR, SP; 93h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html</a>
4	Nuclear Fuel: from Cradle to Grave Project: ANNETTE; Org: KIT and JRC; EN; 1w	<a href="https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf">https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf</a>
5	Nuclear Technology, Nuclear Waste Management and Radiation Protection Project: ANNETTE; Org: ENEN Aalto University, University of Turku, Åbo Akademi University; EN; 1 w	<a href="http://annettesummerschool.aalto.fi/">http://annettesummerschool.aalto.fi/</a>
6	Decommissioning of nuclear installations Project: ENEN/ ELINDER; Org: SCK•CEN ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5</a>
7	Advanced Nuclear Waste Management Project: EURAD-QUESTIONNAIRE; Org: IMT Atlantique ; EN;	<a href="https://www.imt-atlantique.fr/sites/default/files/document/MSc-IMTAtlantique-AdvancedNuclear.pdf">https://www.imt-atlantique.fr/sites/default/files/document/MSc-IMTAtlantique-AdvancedNuclear.pdf</a>
8	Fundamentals of Geological Disposal Project: EURAD-QUESTIONNAIRE; Org: Grimsel Training Centre - Nuclear Training Solutions ; EN; 5 d	<a href="http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018">http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018</a>
9	Nuclear Decommissioning, Waste Management and environmental Site Remediation Project: EURAD-QUESTIONNAIRE; Org: NINE (MIMARS) ; EN;	<a href="http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation">http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation</a>
10	Radioactive Waste Management Project: EURAD-QUESTIONNAIRE; Org: CIEMAT UPM, ENRESA; SP; 60 h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html">http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html</a>
11	School of Geological Disposal - Basis for developing safe geological disposal Project: EURAD-QUESTIONNAIRE; Org: SKB ; EN; 5 d	<a href="https://www.skb.se/sgd2019/">https://www.skb.se/sgd2019/</a>
12	Storage of radioactive waste (PETRUS) Project: EURAD-QUESTIONNAIRE; Org: Mines Nancy Artem ; EN;	<a href="https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8ai/">https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8ai/</a>
13	International School of Nuclear Law (ISNL) Project: ; Org: NEA University of Montpellier; EN; 2 w	<a href="https://www.oecd-nea.org/icms/pl_23822/international-school-of-nuclear-law-isnl">https://www.oecd-nea.org/icms/pl_23822/international-school-of-nuclear-law-isnl</a>
14	Regulatory Review and Assessment of the Safety Case for Disposal Facilities Project: ; Org: ENSTI, IRSN; EN; 15 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
15	Decommissioning of radioactive and nuclear facilities Project: ; Org: CIEMAT ; SP; 30 h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=146">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=146</a>
16	Disposal of Radioactive Waste Project: ; Org: IAEA ; EN, RS; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
17	Fundamentals of RW disposal Project: ; Org: IAEA ; EN RS;	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
18	Geological Disposal Project: ; Org: IAEA ; EN; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=356">https://elearning.iaea.org/m2/enrol/index.php?id=356</a>
19	Borehole Disposal Project: ; Org: IAEA ; EN; 3h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=358">https://elearning.iaea.org/m2/enrol/index.php?id=358</a>
20	Central European School - 9th International School on Nuclear Power in Poland Project: VINCO; Org: National Centre for Nuclear Research (NCBJ) (China General Nuclear Power Corporation, EDF, General Electric Hitachi, Korea Hydro & Nuclear Power, SNC-Lavalin, Westinghouse; EN; 4 d	<a href="https://www.ncbj.gov.pl/en/aktualnosci/9th-international-school-nuclear-power">https://www.ncbj.gov.pl/en/aktualnosci/9th-international-school-nuclear-power</a> <a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bc9e695a&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bc9e695a&amp;appId=PPGMS</a>
21	Decommissioning, Radioactive Waste and Environmental Management (SC4110) Project: ANNETTE; Org: University of Central Lancashire Courses; EN; 1 w	<a href="http://www.dimnp.unipi.it/walter-ambrosini/SC4110%20%20ANNETTE%20UCLan%20V15.05.html">http://www.dimnp.unipi.it/walter-ambrosini/SC4110%20%20ANNETTE%20UCLan%20V15.05.html</a>
22	Fundamentals of International Nuclear Law (FINL) Project: ; Org: NEA ; EN; 9h	<a href="https://www.oecd-nea.org/icms/pl_50604/fundamentals-of-international-nuclear-law-finl?id=pl_50604&amp;preview=true">https://www.oecd-nea.org/icms/pl_50604/fundamentals-of-international-nuclear-law-finl?id=pl_50604&amp;preview=true</a>
23	Regulatory review of the safety case for geological disposal Project: SITEX-II; Org: ENSTII IRSN, NEA; EN; 5 d	<a href="http://sitexproject.eu/index_2.html#workshops">http://sitexproject.eu/index_2.html#workshops</a>

## WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 3. Engineered barrier system properties, function and long-term performance

#	Course	Link
24	Regulatory Control of the Safety of Spent Fuel & Radioactive Waste Management Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
25	EERRI Research Reactor Group Fellowship Programme Project: VINCO; Org: Centre for Energy Research, Hungarian Academy of Sciences with Institute of Nuclear Techniques of Budapest University of Technology and Economics ; EN; 1.5 m	<a href="https://nucleus.iaea.org/sites/connect/RRIHpublic/Pages/EERRI-Group-Fellowship.aspx">https://nucleus.iaea.org/sites/connect/RRIHpublic/Pages/EERRI-Group-Fellowship.aspx</a>
26	Application of Nuclear Safety Concepts in the Development of Regulations and Guidance Project: ; Org: ENSTI, IRSN ; EN; 6 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
27	Nuclear Waste Management Project: ; Org: CEA, ENEN ; EN; 1 w	<a href="https://instn.cea.fr/formation/nuclear-waste-management-international-school-in-nuclear-engineering/">https://instn.cea.fr/formation/nuclear-waste-management-international-school-in-nuclear-engineering/</a>
28	Computer Control of Experiments Project: VINCO; Org: CTU Prague, FNSPE ; EN;	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
29	Metrology for Waste Characterization and Clearance Project: ; Org: JRC ; EN; 5 d	<a href="https://ec.europa.eu/jrc/en/training-programme/metrology-waste-characterization-and-clearance-elinder-course-s7">https://ec.europa.eu/jrc/en/training-programme/metrology-waste-characterization-and-clearance-elinder-course-s7</a>
30	How does corrosion influence the health of concrete? Project: ; Org: IETCC ; SP; 2 h	<a href="https://www.ietcc.csic.es/noticias/como-influye-la-corrosion-en-la-salud-del-hormigon-how-does-corrosion-influence-the-health-of-concrete/">https://www.ietcc.csic.es/noticias/como-influye-la-corrosion-en-la-salud-del-hormigon-how-does-corrosion-influence-the-health-of-concrete/</a>
31	Nuclear Waste Management Project: ENEN; Org: CEA ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=42">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=42</a>
32	Material and waste management in decommissioning Project: INSIDER (ELINDER); Org: CEA-INSTN ; EN;	<a href="http://insider-h2020.eu/trainingcourses/">http://insider-h2020.eu/trainingcourses/</a>
33	Application of International Regulations in Qualification and Approval of Packages for the Transport of Radioactive Materials Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
34	Digital Safety Systems of Nuclear Reactors Project: VINCO; Org: CTU Prague, FNSPE ; EN;	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
35	Control systems of Nuclear Reactors Project: VINCO; Org: CTU Prague, FNSPE ; EN; 9 m	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
36	Radioactive Waste Management Project: ; Org: SCK•CEN ; EN; 1.5 w	<a href="https://www.sckcen.be/en/node/843">https://www.sckcen.be/en/node/843</a>
37	Processing, Storage and Disposal of Nuclear Wastes (N10) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N10_syllabus.html">http://www.ntec.ac.uk/syllabi/N10_syllabus.html</a>
38	Decommissioning Implementation Project: ; Org: IAEA ; EN, JP; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=518">https://elearning.iaea.org/m2/enrol/index.php?id=518</a>
39	JOPRAD – Towards a Joint Programming on Radioactive Waste Project: SITEX-II; Org: JOPRAD ; EN; 2 d	<a href="http://sitexproject.eu/index_2.html#workshops_201609">http://sitexproject.eu/index_2.html#workshops_201609</a>
40	The chemistry of f-elements Project: ; Org: TU Dresden Other institutions from: USA, Russia, France, Germany; EN; 1 w	<a href="https://tu-dresden.de/mn/chemie/ac/ac3/die-professur/news/international-autumn-school-the-chemistry-of-f-elements-1">https://tu-dresden.de/mn/chemie/ac/ac3/die-professur/news/international-autumn-school-the-chemistry-of-f-elements-1</a>
41	The ThUL School in Actinide Chemistry Project: ; Org: HZDR (organized by different institutes every year) Several researcher centers & universities; EN; 1 w	<a href="https://www.hzdr.de/db/Cms?pOid=44510&amp;pNid=3488">https://www.hzdr.de/db/Cms?pOid=44510&amp;pNid=3488</a>
42	Conditioning, disposal & final disposal of radioactive waste Project: ; Org: AiNT; GR; 4 d	<a href="https://www.nuclear-training.de/seminar-details/modul-6-1210.html">https://www.nuclear-training.de/seminar-details/modul-6-1210.html</a>
43	ENEN+ Summer School Project: ENEN+; Org: ENEN+ Budapest University of Technology and Economics; EN; 1 w	<a href="https://summerschool2020.enen.bme.hu/">https://summerschool2020.enen.bme.hu/</a>
44	Geological disposal of radioactive waste Project: EURAD-QUESTIONNAIRE; Org: Université de Lorraine ; EN; 30 h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html</a>
45	Virtual First Tritium School Project: TRANSAT; Org: Jožef Stefan Institute ; EN; 2 d	<a href="http://transat-h2020.eu/wp-content/uploads/2018/08/TRANSAT-1st-SUMMER-SCHOOL.pdf">http://transat-h2020.eu/wp-content/uploads/2018/08/TRANSAT-1st-SUMMER-SCHOOL.pdf</a>
46	FIRST-Nuclides project Project: FIRST-Nuclides; Org: KIT-INE JRC; EN; 2 d	<a href="http://www.firstnuclides.eu/ZonaPublica/FIRST-Nuclides-training-course-announcement_v3.pdf">http://www.firstnuclides.eu/ZonaPublica/FIRST-Nuclides-training-course-announcement_v3.pdf</a>
47	MSR Summer school Project: SAMOFAR; Org: ; EN; 3 d	<a href="http://samofar.eu/summerschool/">http://samofar.eu/summerschool/</a>
48	Introduction to Nuclear Reactor Physics Project: VINCO; Org: CTU Prague, FNSPE ; EN;	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
49	Fundamentals of geological disposal (PETRUS) Project: ENEN/PETRUS; Org: ITC ; EN; 10 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=89">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=89</a>

## WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 3. Engineered barrier system properties, function and long-term performance

#	Course	Link
50	Decommissioning of Nuclear Facilities Project: none; Org: Czech Technical University in Prague ; CZ; 3 y	<a href="https://www.fifi.cvut.cz/en/education/bachelor-s-study/fields-of-bachelor-programme-new/decommissioning-of-nuclear-facilities-bc">https://www.fifi.cvut.cz/en/education/bachelor-s-study/fields-of-bachelor-programme-new/decommissioning-of-nuclear-facilities-bc</a>
51	Near Surface Disposal Project: ; Org: IAEA ; EN; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=354">https://elearning.iaea.org/m2/enrol/index.php?id=354</a>
52	DOT/NRC Radioactive Waste Packaging, Transportation and Disposal Project: ; Org: EnergySolutions ; EN; 32 h	<a href="https://www.energysolutionstraining.com/core/files/energysolutionstrainin g/uploads/files/Course%20Catalog(3).pdf">https://www.energysolutionstraining.com/core/files/energysolutionstrainin g/uploads/files/Course%20Catalog(3).pdf</a>
53	Monitoring in Geological Disposal of Radioactive Waste Project: Modern2020; Org: Äspö Hard Rock Laboratory, Sweden. ; EN; 5 d	<a href="http://www.modern2020.eu/training/learning-outcomes.html">http://www.modern2020.eu/training/learning-outcomes.html</a>
54	Microbiology and disposal of radioactive waste (PETRUS) Project: ENEN/PETRUS; Org: MICANS ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=95">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=95</a>
55	Understanding Thermo-Hydro-Mechanical processes for safety assessment: theory and numerical simulation (PETRUS) Project: ENEN/PETRUS; Org: CARDIFF ; EN; 6 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=69">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=69</a>
56	CRISTAL - Tools for Criticality Safety Calculation Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
57	Thermochemical Database (TDB) Project course: Thermodynamic data collection and assessment Project: ; Org: NEA KIT-INE, LANL; A21, EMPA; EN; 2 d	<a href="https://www.oecd-nea.org/upload/docs/application/pdf/2020-09/outline_course_paris_2020.pdf">https://www.oecd-nea.org/upload/docs/application/pdf/2020-09/outline_course_paris_2020.pdf</a>
58	Theramin technical training school Project: THERAMIN; Org: CEA EDF; EN; 3 d	<a href="http://www.theramin-h2020.eu/downloads/THERAMIN%20Training%20school%20flyer.pdf">http://www.theramin-h2020.eu/downloads/THERAMIN%20Training%20school%20flyer.pdf</a>
59	From geophysical field data to geological models - theory and hands-on workshop Project: EURAD-QUESTIONNAIRE; Org: Grimsel ; EN; 3 d	<a href="http://www.grimsel.com/images/GTC_Files/GTC_Announcemet_From_Geo_physical_Field_Data_to_Geological_models_Hands_on_workshop.pdf">http://www.grimsel.com/images/GTC_Files/GTC_Announcemet_From_Geo_physical_Field_Data_to_Geological_models_Hands_on_workshop.pdf</a>
60	C-14 behaviour under repository conditions Project: CAST; Org: KIT-INE WAK-HDB; EN; 2 d	<a href="https://www.projectcast.eu/cms-file/get/1Fileld/2522">https://www.projectcast.eu/cms-file/get/1Fileld/2522</a>
61	Plug and Seal Training Workshop Project: DOPAS; Org: CTU POSIVA; EN; 5 d	<a href="https://posiva.fi/dopas/files/4375/DOPAS_Deliverable_D7_2_Plug_and_Sea_l_Training_Workshop_planning_and_implementation_report_.pdf">https://posiva.fi/dopas/files/4375/DOPAS_Deliverable_D7_2_Plug_and_Sea_l_Training_Workshop_planning_and_implementation_report_.pdf</a>
62	Introduction to safety assessment in geological disposal of spent fuel - advanced sessions (PETRUS II) Project: ENEN/PETRUS II; Org: POSIVA ; FN; 4 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=100">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=100</a>
63	Mechanical measurements of irradiated materials Project: VINCO; Org: National Centre for Nuclear Research (NCBJ) JAEA; EN; 2 d	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bd507a32&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bd507a32&amp;appId=PPGMS</a>
64	Engineered Barrier Systems - Bentonite properties and applications Project: EURAD-QUESTIONNAIRE; Org: Grimsel ; EN; 5 d	<a href="https://www.grimsel.com/gts-information/grimsel-training-centre-gtc">https://www.grimsel.com/gts-information/grimsel-training-centre-gtc</a>
65	Disused Sealed Radioactive sources Project: ; Org: IAEA ; EN, SP,FR; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=376">https://elearning.iaea.org/m2/enrol/index.php?id=376</a>
66	New Nuclear Sources Project: VINCO; Org: CTU Prague, FNSPE ; EN;	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
67	Nuclear Waste Management – International school in nuclear engineering Project: EURAD-QUESTIONNAIRE; Org: CEA ; EN; 5 d (30 h)	<a href="http://www-instn.cea.fr/en/education-and-training/continuing-education/short-courses/international-school-in-nuclear-engineering-nuclear-waste-management,1936959.html">http://www-instn.cea.fr/en/education-and-training/continuing-education/short-courses/international-school-in-nuclear-engineering-nuclear-waste-management,1936959.html</a>
68	Nuclear fuel cycle Project: ANNETTE; Org: The Belgian Nuclear Education Network; EN; 90 h	<a href="https://bnen.sckcen.be/courses/nuclear-fuel-cycle">https://bnen.sckcen.be/courses/nuclear-fuel-cycle</a>
69	Migration of radioactive waste from deep geological waste repositories - Case Study (PETRUS) Project: ENEN/PETRUS; Org: BME ; EN; 6 h	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=78">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=78</a>
70	Geological storage in Precambrian bedrock (PETRUS) Project: ENEN/PETRUS; Org: Äspö Hard Rock Laboratory, Sweden ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=112">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=112</a>
71	Transport and Retention of Radionuclides in Argillaceous and Fractured Media (PETRUS) Project: ENEN/PETRUS; Org: ITC ; EN;	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=104">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=104</a>
72	Actinide Science & Applications Project: ; Org: JRC other international organizations; EN; 1 w	<a href="https://www.eumonitor.eu/9353000/1/9vvik7m1c3gyxp/vjrb78660typ?ctx=vh77iv5icpm2&amp;v=1&amp;tab=1&amp;start_tab1=50">https://www.eumonitor.eu/9353000/1/9vvik7m1c3gyxp/vjrb78660typ?ctx=vh77iv5icpm2&amp;v=1&amp;tab=1&amp;start_tab1=50</a>
73	Radioactive Waste Cementation Project: ; Org: ICTP-IAEA AEA, PNNL, CEA, Savannah River National, NEFW, Imperial College London, IGEM RAS, USDF, Kazan State University, VNINM; EN; 14 d	<a href="http://indico.ictp.it/event/9129/overview">http://indico.ictp.it/event/9129/overview</a>
74	Geological disposal of Radioactive Waste Project: ANNETTE; Org: Université de Lorraine & Universidad Politécnica de Madrid; EN; 30h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html</a>

**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 3. Engineered barrier system properties, function and long-term performance**

#	Course	Link
75	Hands on training in nuclear chemistry Project: CINCH; Org: CVUT ; EN;	<a href="https://www.cinch-project.eu/cinch2/data/CINCH_I/docs_I/CINCH_Hands_on_121116.pdf">https://www.cinch-project.eu/cinch2/data/CINCH_I/docs_I/CINCH_Hands_on_121116.pdf</a>
76	Modern Spent Fuel Dissolution and Chemistry in Failed Container Conditions Project: EURAD-QUESTIONNAIRE; Org: DISCO ; EN;	<a href="https://www.disco-h2020.eu/Home/GeneralInformation">https://www.disco-h2020.eu/Home/GeneralInformation</a>
77	Characterization of Radioactive Waste Project: ; Org: CIEMAT ; SP; 30h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=147">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=147</a>
78	Clay minerals in soils and weathered rock Project: ENEN; Org: European group University of Helsinki; EN; 10 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=85">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=85</a>
79	Petrology and Geochemistry of rocks relevant for final disposal (PETRUS) Project: ENEN/PETRUS; Org: Technische Universität Clausthal Institut für Endlagerforschung ; EN;	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=115">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=115</a>
80	Geomicrobiology in radioactive waste disposal Project: MIND; Org: SCK•CEN ; EN; 4 d	<a href="https://www.mind15.eu/public-meetings/">https://www.mind15.eu/public-meetings/</a>
81	Isotope Hydrology Project: ; Org: IAEA ; EN; 60h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=759">https://elearning.iaea.org/m2/enrol/index.php?id=759</a>
82	Curso de Cementos Alcalinos Project: ; Org: IETCC ; SP; 3 d	<a href="https://www.ietcc.csic.es/cursos-y-masters/curso-de-cementos-alcalinos-2020/">https://www.ietcc.csic.es/cursos-y-masters/curso-de-cementos-alcalinos-2020/</a>
83	Virtual Second Tritium School Project: TRANSAT; Org: Aix-Marseille University, France Jožef Stefan Institute, Slovenia CEA, France; EN; 5 d	<a href="http://transat-h2020.eu/transat-second-tritium-school/">http://transat-h2020.eu/transat-second-tritium-school/</a>
84	From nuclear data to a reliable estimate of spent fuel decay heat Project: ENEN; Org: SCK•CEN ; EN; 1 d	<a href="https://www.sckcen.be/en/events-courses/topical-day-nuclear-data-reliable-estimate-spent-fuel-decay-heat-b0781b76-342f-e711-80c1-ecf4bbc6e827">https://www.sckcen.be/en/events-courses/topical-day-nuclear-data-reliable-estimate-spent-fuel-decay-heat-b0781b76-342f-e711-80c1-ecf4bbc6e827</a>
85	Bentonite training course Project: PEBS; Org: BGR ; EN; 4 d	<a href="https://www.pebs.eu.de/PEBS/EN/Events/events_inhalt_en.html?nm=1797144#link2">https://www.pebs.eu.de/PEBS/EN/Events/events_inhalt_en.html?nm=1797144#link2</a>
86	REDUPP Lecture Series (x9) Project: REDUPP; Org: Several ; EN; 4 d	<a href="https://www.skb.se/redupp/training/">https://www.skb.se/redupp/training/</a>
87	Química del Cemento Project: ; Org: IETCC ; SP; 8 d	<a href="https://www.ietcc.csic.es/cursos-y-masters/curso-de-la-quimica-del-cemento-tomas-vazquez-2020/">https://www.ietcc.csic.es/cursos-y-masters/curso-de-la-quimica-del-cemento-tomas-vazquez-2020/</a>
88	Multi-physical couplings in geomechanics Project: EURAD; Org: EURAD WP GAS + HITEC ; EN; 3 d	<a href="https://euradschool.eu/event/test-1-eurad-training-course/">https://euradschool.eu/event/test-1-eurad-training-course/</a>
89	Multi-physics and multiscale coupled processes in geomaterials – Focus on thermal effects and gas transfer impact on the behaviour of geomaterials Project: EURAD; Org: EURAD WP GAS + HITEC ; EN; 1 w	<a href="https://euradschool.eu/event/gas-hitec-training-course/">https://euradschool.eu/event/gas-hitec-training-course/</a>
90	Uncertainty Management Project: EURAD; Org: EURAD WP13 ; EN; 3 d	<a href="https://euradschool.eu/event/eurad-training-course-on-uncertainty-management/">https://euradschool.eu/event/eurad-training-course-on-uncertainty-management/</a>
91	Geochemical and Reactive Transport Modelling for Geological Disposal Project: EURAD; Org: EURAD WP13 ; EN; 1 w	<a href="https://euradschool.eu/event/geochemical-and-reactive-transport-modelling-for-geological-disposal/">https://euradschool.eu/event/geochemical-and-reactive-transport-modelling-for-geological-disposal/</a>
92	Spent Fuel State-of-Knowledge document Project: EURAD; Org: EURAD WP13 ; EN; 1 d	<a href="https://euradschool.eu/event/information-session-and-discussion-on-the-spent-fuel-state-of-knowledge-document/">https://euradschool.eu/event/information-session-and-discussion-on-the-spent-fuel-state-of-knowledge-document/</a>
93	Introductory course on EURAD and Radioactive Waste Management Project: EURAD; Org: EURAD WP 13 ; EN; 1 d	<a href="https://euradschool.eu/event/eurad_and_radioactive_waste_management/">https://euradschool.eu/event/eurad_and_radioactive_waste_management/</a>



#### WP 13.Training and Mobility

#### **Appendix E. Alignment of the available courses with the roadmap: Theme 4. Geoscience to understand rock properties, radionuclide transport, and long-term geological evolution**

This project has received funding from the European Union's Horizon 2020 research and innovation programme 2014-2018 under grant agreement N°847593



**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 4. Geoscience to understand rock properties, radionuclide transport, and long-term geological evolution**

Table 5. List of courses aligned with Theme 4 of EURAD roadmap: Geoscience to understand rock properties, radionuclide transport, and long-term geological evolution.

#	Course	Link
1	Final Stage of the Nuclear Lifecycle Project: ANNETTE; Org: KIT and JRC; EN; 5D	<a href="https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en">https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en</a>
2	Geological Disposal at the Josef Experimental Repository (CVUT) Project: ANNETTE; Org: Czech Technical University in Prague (CVUT); EN; 3 d	<a href="https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view">https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view</a>
3	Geological disposal of Radioactive Waste Project: ANNETTE; Org: Université de Lorraine & Universidad Politecnica de Madrid; FR, SP; 93h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html</a>
4	Nuclear Fuel: from Cradle to Grave Project: ANNETTE; Org: KIT and JRC; EN; 1w	<a href="https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf">https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf</a>
5	Nuclear Technology, Nuclear Waste Management and Radiation Protection Project: ANNETTE; Org: ENEN Aalto University, University of Turku, Åbo Akademi University; EN; 1 w	<a href="http://annettesummerschool.aalto.fi/">http://annettesummerschool.aalto.fi/</a>
6	Decommissioning of nuclear installations Project: ENEN/ ELINDER; Org: SCK•CEN ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5</a>
7	Advanced Nuclear Waste Management Project: EURAD-QUESTIONNAIRE; Org: IMT Atlantique ; EN;	<a href="https://www.imt-atlantique.fr/sites/default/files/document/MSc-IMTAtlantique-AdvancedNuclear.pdf">https://www.imt-atlantique.fr/sites/default/files/document/MSc-IMTAtlantique-AdvancedNuclear.pdf</a>
8	Fundamentals of Geological Disposal Project: EURAD-QUESTIONNAIRE; Org: Grimsel Training Centre - Nuclear Training Solutions ; EN; 5 d	<a href="http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018">http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018</a>
9	Nuclear Decommissioning, Waste Management and environmental Site Remediation Project: EURAD-QUESTIONNAIRE; Org: NINE (MMARS) ; EN;	<a href="http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation">http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation</a>
10	Radioactive Waste Management Project: EURAD-QUESTIONNAIRE; Org: CIEMAT UPM, ENRESA; SP; 60 h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html">http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html</a>
11	School of Geological Disposal - Basis for developing safe geological disposal Project: EURAD-QUESTIONNAIRE; Org: SKB ; EN; 5 d	<a href="https://www.skb.se/sgd2019/">https://www.skb.se/sgd2019/</a>
12	Storage of radioactive waste (PETRUS) Project: EURAD-QUESTIONNAIRE; Org: Mines Nancy Artem ; EN;	<a href="https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8ai/">https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8ai/</a>
13	International School of Nuclear Law (ISNL) Project: ; Org: NEA University of Montpellier; EN; 2 w	<a href="https://www.oecd-nea.org/jcms/pl_23822/international-school-of-nuclear-law-isnl">https://www.oecd-nea.org/jcms/pl_23822/international-school-of-nuclear-law-isnl</a>
14	Regulatory Review and Assessment of the Safety Case for Disposal Facilities Project: ; Org: ENSTI, IRSN; EN; 15 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
15	Decommissioning of radioactive and nuclear facilities Project: ; Org: CIEMAT ; SP; 30 h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=146">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=146</a>
16	Disposal of Radioactive Waste Project: ; Org: IAEA ; EN, RS; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
17	Fundamentals of RW disposal Project: ; Org: IAEA ; EN RS;	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
18	Geological Disposal Project: ; Org: IAEA ; EN; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=356">https://elearning.iaea.org/m2/enrol/index.php?id=356</a>
19	Borehole Disposal Project: ; Org: IAEA ; EN; 3h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=358">https://elearning.iaea.org/m2/enrol/index.php?id=358</a>
20	Radioactive Waste disposal Project: ; Org: SCK•CEN ; EN; w	<a href="https://www.sckcen.be/en/academy/training-courses/personalized-training-courses/customized-training-courses-radioactive-waste-disposal">https://www.sckcen.be/en/academy/training-courses/personalized-training-courses/customized-training-courses-radioactive-waste-disposal</a>
21	Central European School - 9th International School on Nuclear Power in Poland Project: VINCO; Org: National Centre for Nuclear Research (NCBJ) (China General Nuclear Power Corporation, EDF, General Electric Hitachi, Korea Hydro & Nuclear Power, SNC-Lavalin, Westinghouse; EN; 4 d	<a href="https://www.ncbj.gov.pl/en/aktualnosci/9th-international-school-nuclear-power">https://www.ncbj.gov.pl/en/aktualnosci/9th-international-school-nuclear-power</a> <a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bc9e695a&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bc9e695a&amp;appId=PPGMS</a>
22	Regulatory Control of the Safety of Spent Fuel & Radioactive Waste Management Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>

**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 4. Geoscience to understand rock properties, radionuclide transport, and long-term geological evolution**

#	Course	Link
23	EERRI Research Reactor Group Fellowship Programme Project: VINCO; Org: Centre for Energy Research, Hungarian Academy of Sciences with Institute of Nuclear Techniques of Budapest University of Technology and Economics ; EN; 1.5 m	<a href="https://nucleus.iaea.org/sites/connect/RRIHpublic/Pages/EERRI-Group-Fellowship.aspx">https://nucleus.iaea.org/sites/connect/RRIHpublic/Pages/EERRI-Group-Fellowship.aspx</a>
24	Application of Nuclear Safety Concepts in the Development of Regulations and Guidance Project: ; Org: ENSTTI, IRSN ; EN; 6 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
25	State-of-the-art computer codes Project: ; Org: NEA ; EN; variable	<a href="https://www.oecd-nea.org/jcms/pl_52270/training-courses-on-state-of-the-art-computer-codes">https://www.oecd-nea.org/jcms/pl_52270/training-courses-on-state-of-the-art-computer-codes</a>
26	Radiation Protection and Confinement Systems Project: ; Org: ENSTTI, IRSN ; SP; 5 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
27	Metrology for Waste Characterization and Clearance Project: ; Org: JRC ; EN; 5 d	<a href="https://ec.europa.eu/irc/en/training-programme/metrology-waste-characterization-and-clearance-elinder-course-s7">https://ec.europa.eu/irc/en/training-programme/metrology-waste-characterization-and-clearance-elinder-course-s7</a>
28	How does corrosion influence the health of concrete? Project: ; Org: IETCC ; SP; 2 h	<a href="https://www.ietcc.csic.es/noticias/como-influye-la-corrosion-en-la-salud-del-hormigon-how-does-corrosion-influence-the-health-of-concrete/">https://www.ietcc.csic.es/noticias/como-influye-la-corrosion-en-la-salud-del-hormigon-how-does-corrosion-influence-the-health-of-concrete/</a>
29	Environmental Remediation Project: ; Org: IAEA ; EN; 4h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=500">https://elearning.iaea.org/m2/enrol/index.php?id=500</a>
30	Processing, Storage and Disposal of Nuclear Wastes (N10) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N10_syllabus.html">http://www.ntec.ac.uk/syllabi/N10_syllabus.html</a>
31	Decommissioning Implementation Project: ; Org: IAEA ; EN, JP; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=518">https://elearning.iaea.org/m2/enrol/index.php?id=518</a>
32	The chemistry of f-elements Project: ; Org: TU Dresden and other institutions from: USA, Russia, France, Germany; EN; 1 w	<a href="https://tu-dresden.de/mn/chemie/ac/ac3/die-professor/news/international-autumn-school-the-chemistry-of-f-elements-1">https://tu-dresden.de/mn/chemie/ac/ac3/die-professor/news/international-autumn-school-the-chemistry-of-f-elements-1</a>
33	The ThUL School in Actinide Chemistry Project: ; Org: HZDR (organized by different institutes every year) Several researcher centers & universities; EN; 1 w	<a href="https://www.hzdr.de/db/Cms?pOid=44510&amp;pNid=3488">https://www.hzdr.de/db/Cms?pOid=44510&amp;pNid=3488</a>
34	Conditioning, disposal & final disposal of radioactive waste Project: ; Org: AINT ; GR; 4 d	<a href="https://www.nuclear-training.de/seminar-details/modul-6-1210.html">https://www.nuclear-training.de/seminar-details/modul-6-1210.html</a>
35	ENEN+ Summer School Project: ENEN+; Org: ENEN+ Budapest University of Technology and Economics; EN; 1 w	<a href="https://summerschool2020.enen.bme.hu/">https://summerschool2020.enen.bme.hu/</a>
36	Geological disposal of radioactive waste Project: EURAD-QUESTIONNAIRE; Org: Université de Lorraine ; EN; 30 h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html</a>
37	Virtual First Tritium School Project: TRANSAT; Org: Jožef Stefan Institute ; EN; 2 d	<a href="http://transat-h2020.eu/wp-content/uploads/2018/08/TRANSAT-1st-SUMMER-SCHOOL.pdf">http://transat-h2020.eu/wp-content/uploads/2018/08/TRANSAT-1st-SUMMER-SCHOOL.pdf</a>
38	Nuclear fuel cycle Project: ANNETTE; Org: The Belgian Nuclear Education Network; EN; 81h	<a href="https://bnen.sckcen.be/courses/advanced-courses-nuclear-fuel-cycle">https://bnen.sckcen.be/courses/advanced-courses-nuclear-fuel-cycle</a>
39	Nuclear Engineering Project: ENEN; Org: INSTN/CEA ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=4">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=4</a>
40	Fundamentals of geological disposal (PETRUS) Project: ENEN/PETRUS; Org: ITC ; EN; 10 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=89">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=89</a>
41	Decommissioning of Nuclear Facilities Project: none; Org: Czech Technical University in Prague ; CZ; 3 y	<a href="https://www.fjfi.cvut.cz/en/education/bachelor-s-study/fields-of-bachelor-programme-new/decommissioning-of-nuclear-facilities-bc">https://www.fjfi.cvut.cz/en/education/bachelor-s-study/fields-of-bachelor-programme-new/decommissioning-of-nuclear-facilities-bc</a>
42	Near Surface Disposal Project: ; Org: IAEA ; EN; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=354">https://elearning.iaea.org/m2/enrol/index.php?id=354</a>
43	DOT/NRC Radioactive Waste Packaging, Transportation and Disposal Project: ; Org: EnergySolutions ; EN; 32 h	<a href="https://www.energysolutionstraining.com/core/files/energysolutionstrainin_g/uploads/files/Course%20Catalog(3).pdf">https://www.energysolutionstraining.com/core/files/energysolutionstrainin_g/uploads/files/Course%20Catalog(3).pdf</a>
44	Introduction to the MARSSIM tool Project: ; Org: TECNATOM S.A ; SP; 6h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=57">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=57</a>
45	Monitoring in Geological Disposal of Radioactive Waste Project: Modern2020; Org: Äspö Hard Rock Laboratory, Sweden. ; EN; 5 d	<a href="http://www.modern2020.eu/training/learning-outcomes.html">http://www.modern2020.eu/training/learning-outcomes.html</a>
46	Microbiology and disposal of radioactive waste (PETRUS) Project: ENEN/PETRUS; Org: MICANS ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=95">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=95</a>
47	Understanding Thermo-Hydro-Mechanical processes for safety assessment: theory and numerical simulation (PETRUS) Project: ENEN/PETRUS; Org: CARDIFF ; EN; 6 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=69">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=69</a>
48	Fundamentals of long-term safety analysis (PETRUS) Project: ENEN/PETRUS; Org: Technische Universität Clausthal Institut für Endlagerforschung ; EN;	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=116">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=116</a>



**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 4. Geoscience to understand rock properties, radionuclide transport, and long-term geological evolution**

#	Course	Link
49	Physics and Chemistry of the Actinides Project; ; Org: Institut des Sciences Chimiques de Rennes Other (not specified yet); EN; 4 d	<a href="https://ida2020.sciencesconf.org/">https://ida2020.sciencesconf.org/</a>
50	Emergency Response to Transport Accidents involving Radioactive Materials at Sea and in Port Zones Project; ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
51	Thermochemical Database (TDB) Project course: Thermodynamic data collection and assessment Project; ; Org: NEA KIT-INE, LANL; A21, EMPA; EN; 2 d	<a href="https://www.oecd-nea.org/upload/docs/application/pdf/2020-09/outline_course_paris_2020.pdf">https://www.oecd-nea.org/upload/docs/application/pdf/2020-09/outline_course_paris_2020.pdf</a>
52	Theramin technical training school Project: THERAMIN; Org: CEA EDF; EN; 3 d	<a href="http://www.theramin-h2020.eu/downloads/THERAMIN%20Training%20school%20flyer.pdf">http://www.theramin-h2020.eu/downloads/THERAMIN%20Training%20school%20flyer.pdf</a>
53	From geophysical field data to geological models - theory and hands-on workshop Project: EURAD-QUESTIONNAIRE; Org: Grimsel ; EN; 3 d	<a href="http://www.grimsel.com/images/GTC_Files/GTC_Announcemet_From_Geophysical_Field_Data_to_Geological_models_Hands_on_workshop.pdf">http://www.grimsel.com/images/GTC_Files/GTC_Announcemet_From_Geophysical_Field_Data_to_Geological_models_Hands_on_workshop.pdf</a>
54	Engineered Barrier Systems - Bentonite properties and applications Project: EURAD-QUESTIONNAIRE; Org: Grimsel ; EN; 5 d	<a href="https://www.grimsel.com/gts-information/grimsel-training-centre-gtc">https://www.grimsel.com/gts-information/grimsel-training-centre-gtc</a>
55	Nuclear Waste Management – International school in nuclear engineering Project: EURAD-QUESTIONNAIRE; Org: CEA ; EN; 5 d (30 h)	<a href="http://www-instn.cea.fr/en/education-and-training/continuing-education/short-courses/international-school-in-nuclear-engineering-nuclear-waste-management,1936959.html">http://www-instn.cea.fr/en/education-and-training/continuing-education/short-courses/international-school-in-nuclear-engineering-nuclear-waste-management,1936959.html</a>
56	Nuclear fuel cycle Project: ANNETTE; Org: The Belgian Nuclear Education Network; EN; 90 h	<a href="https://bnen.sckcen.be/courses/nuclear-fuel-cycle">https://bnen.sckcen.be/courses/nuclear-fuel-cycle</a>
57	Migration of radioactive waste from deep geological waste repositories - Case Study (PETRUS) Project: ENEN/PETRUS; Org: BME ; EN; 6 h	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=78">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=78</a>
58	Geological storage in Precambrian bedrock (PETRUS) Project: ENEN/PETRUS; Org: Äspö Hard Rock Laboratory, Sweden ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=112">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=112</a>
59	Transport and Retention of Radionuclides in Argillaceous and Fractured Media (PETRUS) Project: ENEN/PETRUS; Org: ITC ; EN;	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=104">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=104</a>
60	Release of radioactive materials and nuclear system component Project; ; Org: AiNT ; GR; 2 d	<a href="https://www.nuclear-training.de/seminar-details/modul-2-1205.html">https://www.nuclear-training.de/seminar-details/modul-2-1205.html</a>
61	Actinide Science & Applications Project; ; Org: JRC other international organizations; EN; 1 w	<a href="https://www.eumonitor.eu/9353000/1/j9vvik7m1c3gyxp/vrb78660typ?ctx=vh77iv5icpm2&amp;v=1&amp;tab=1&amp;start_tab1=50">https://www.eumonitor.eu/9353000/1/j9vvik7m1c3gyxp/vrb78660typ?ctx=vh77iv5icpm2&amp;v=1&amp;tab=1&amp;start_tab1=50</a>
62	Geological disposal of Radioactive Waste Project: ANNETTE; Org: Université de Lorraine & Universidad Politécnica de Madrid; EN; 30h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20UL-UPM.html</a>
63	Hands on training in nuclear chemistry Project: CINCH; Org: CVUT ; EN;	<a href="https://www.cinch-project.eu/cinch2/data/CINCH_I/docs_I/CINCH_Hands_on_121116.pdf">https://www.cinch-project.eu/cinch2/data/CINCH_I/docs_I/CINCH_Hands_on_121116.pdf</a>
64	Modern Spent Fuel Dissolution and Chemistry in Failed Container Conditions Project: EURAD-QUESTIONNAIRE; Org: DISCO ; EN;	<a href="https://www.disco-h2020.eu/Home/GeneralInformation">https://www.disco-h2020.eu/Home/GeneralInformation</a>
65	Characterization of Radioactive Waste Project; ; Org: CIEMAT ; SP; 30h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=147">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=147</a>
66	Clay minerals in soils and weathered rock Project: ENEN; Org: European group University of Helsinki; EN; 10 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=85">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=85</a>
67	Petrology and Geochemistry of rocks relevant for final disposal (PETRUS) Project: ENEN/PETRUS; Org: Technische Universität Clausthal Institut für Endlagerforschung ; EN;	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=115">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=115</a>
68	Geomicrobiology in radioactive waste disposal Project: MIND; Org: SCK•CEN ; EN; 4 d	<a href="https://www.mind15.eu/public-meetings/">https://www.mind15.eu/public-meetings/</a>
69	Isotope Hydrology Project; ; Org: IAEA ; EN; 60h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=759">https://elearning.iaea.org/m2/enrol/index.php?id=759</a>
70	Curso de Cementos Alcalinos Project; ; Org: IETCC ; SP; 3 d	<a href="https://www.ietcc.csic.es/cursos-y-masters/curso-de-cementos-alcalinos-2020/">https://www.ietcc.csic.es/cursos-y-masters/curso-de-cementos-alcalinos-2020/</a>
71	Hydromechanical behaviour of bentonite: constitutive and numerical modelling Project: Beacon; Org: BEACON Universitat Politècnica de Catalunya (UPC) ; EN; 15.5 h	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b85393c5&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b85393c5&amp;appId=PPGMS</a>
72	Carbon Capture and Storage: can anything be learned from 35 years experience in geological disposal of radioactive wastes? (PETRUS) Project: ENEN/PETRUS; Org: ITC ; EN; 4 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=106">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=106</a>
73	Virtual Second Tritium School Project: TRANSAT; Org: Aix-Marseille University, France Jožef Stefan Institute, Slovenia CEA, France; EN; 5 d	<a href="http://transat-h2020.eu/transat-second-tritium-school/">http://transat-h2020.eu/transat-second-tritium-school/</a>

**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 4. Geoscience to understand rock properties, radionuclide transport, and long-term geological evolution**

#	Course	Link
73	Virtual Second Tritium School Project: TRANSAT; Org: Aix-Marseille University, France Jožef Stefan Institute, Slovenia; CEA, France; EN; 5 d	<a href="http://transat-h2020.eu/transat-second-tritium-school/">http://transat-h2020.eu/transat-second-tritium-school/</a>
74	Multi-physical couplings in geomechanics Project: EURAD; Org: EURAD WP GAS + HITEC ; EN; 3 d	<a href="https://euradschool.eu/event/test-1-eurad-training-course/">https://euradschool.eu/event/test-1-eurad-training-course/</a>
75	Multi-physics and multiscale coupled processes in geomaterials – Focus on thermal effects and gas transfer impact on the behaviour of geomaterials Project: EURAD; Org: EURAD WP GAS + HITEC ; EN; 1 w	<a href="https://euradschool.eu/event/gas-hitec-training-course/">https://euradschool.eu/event/gas-hitec-training-course/</a>





#### WP 13.Training and Mobility

#### **Appendix F. Alignment of the available courses with the roadmap: Theme 5. Facility design and the practicalities of construction, operation and closure.**

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**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 5. Facility design and the practicalities of construction, operation and closure**

Table 6. List of courses aligned with the theme5 of EURAD roadmap: Facility design and the practicalities of construction, operation and closure.

#	Course	Link
1	Final Stage of the Nuclear Lifecycle Project: ANNETTE; Org: KIT and JRC; EN; 5D	<a href="https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en">https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en</a>
2	Geological Disposal at the Josef Experimental Repository (CVUT) Project: ANNETTE; Org: Czech Technical University in Prague (CVUT); EN; 3 d	<a href="https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view">https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view</a>
3	Geological disposal of Radioactive Waste Project: ANNETTE; Org: Université de Lorraine & Universidad Politecnica de Madrid; FR, SP; 93h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html</a>
4	Nuclear Fuel: from Cradle to Grave Project: ANNETTE; Org: KIT and JRC; EN; 1w	<a href="https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf">https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf</a>
5	Nuclear Technology, Nuclear Waste Management and Radiation Protection Project: ANNETTE; Org: ENEN Aalto University, University of Turku, Åbo Akademi University; EN; 1 w	<a href="http://annettesummerschool.aalto.fi/">http://annettesummerschool.aalto.fi/</a>
6	Decommissioning of nuclear installations Project: ENEN/ ELINDER; Org: SCK•CEN ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5</a>
7	Advanced Nuclear Waste Management Project: EURAD-QUESTIONNAIRE; Org: IMT Atlantique ; EN;	<a href="https://www.imt-atlantique.fr/sites/default/files/document/MSc-IMTAtlantique-AdvancedNuclear.pdf">https://www.imt-atlantique.fr/sites/default/files/document/MSc-IMTAtlantique-AdvancedNuclear.pdf</a>
8	Fundamentals of Geological Disposal Project: EURAD-QUESTIONNAIRE; Org: Grimsel Training Centre - Nuclear Training Solutions ; EN; 5 d	<a href="http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018">http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018</a>
9	Nuclear Decommissioning, Waste Management and Environmental Site Remediation Project: EURAD-QUESTIONNAIRE; Org: NINE (MMARS) ; EN;	<a href="http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation">http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation</a>
10	Radioactive Waste Management Project: EURAD-QUESTIONNAIRE; Org: CIEMAT UPM, ENRESA; SP; 60 h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html">http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html</a>
11	School of Geological Disposal - Basis for developing safe geological disposal Project: EURAD-QUESTIONNAIRE; Org: SKB ; EN; 5 d	<a href="https://www.skb.se/sgd2019/">https://www.skb.se/sgd2019/</a>
12	Storage of radioactive waste (PETRUS) Project: EURAD-QUESTIONNAIRE; Org: Mines Nancy Artem ; EN;	<a href="https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8ai/">https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8ai/</a>
13	International School of Nuclear Law (ISNL) Project: ; Org: NEA University of Montpellier; EN; 2 w	<a href="https://www.oecd-nea.org/jcms/pl_23822/international-school-of-nuclear-law-isnl">https://www.oecd-nea.org/jcms/pl_23822/international-school-of-nuclear-law-isnl</a>
14	Regulatory Review and Assessment of the Safety Case for Disposal Facilities Project: ; Org: ENSTI, IRSN ; EN; 15 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
15	Decommissioning of radioactive and nuclear facilities Project: ; Org: CIEMAT ; SP; 30 h	<a href="https://ceidem.com/formacion-descripcion/cursos-disponibles/?view=146">https://ceidem.com/formacion-descripcion/cursos-disponibles/?view=146</a>
16	Disposal of Radioactive Waste Project: ; Org: IAEA ; EN, RS; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
17	Fundamentals of RW disposal Project: ; Org: IAEA ; EN RS;	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
18	Geological Disposal Project: ; Org: IAEA ; EN; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=356">https://elearning.iaea.org/m2/enrol/index.php?id=356</a>
19	Borehole Disposal Project: ; Org: IAEA ; EN; 3h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=358">https://elearning.iaea.org/m2/enrol/index.php?id=358</a>
20	Radioactive Waste disposal Project: ; Org: SCK•CEN ; EN; w	<a href="https://www.sckcen.be/en/academy/training-courses/personalized-training-courses/customized-training-courses-radioactive-waste-disposal">https://www.sckcen.be/en/academy/training-courses/personalized-training-courses/customized-training-courses-radioactive-waste-disposal</a>
21	Central European School - 9th International School on Nuclear Power in Poland Project: VINCO; Org: National Centre for Nuclear Research (NCBJ) (China General Nuclear Power Corporation, EDF, General Electric Hitachi, Korea Hydro & Nuclear Power, SNC-Lavalin, Westinghouse; EN; 4 d	<a href="https://www.ncbj.gov.pl/en/aktualnosci/9th-international-school-nuclear-power">https://www.ncbj.gov.pl/en/aktualnosci/9th-international-school-nuclear-power</a> <a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=808166e5bc9e695a&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=808166e5bc9e695a&amp;appId=PPGMS</a>
22	Decommissioning, Radioactive Waste and Environmental Management (SC4110) Project: ANNETTE; Org: University of Central Lancashire Courses; EN; 1 w	<a href="http://www.dimnp.unipi.it/walter-ambrosini/SC4110%20%20ANNETTE%20UCLan%20V15.05.html">http://www.dimnp.unipi.it/walter-ambrosini/SC4110%20%20ANNETTE%20UCLan%20V15.05.html</a>
23	Fundamentals of International Nuclear Law (FINL) Project: ; Org: NEA ; EN; 9h	<a href="https://www.oecd-nea.org/jcms/pl_50604/fundamentals-of-international-nuclear-law-fin?id=pl_50604&amp;preview=true">https://www.oecd-nea.org/jcms/pl_50604/fundamentals-of-international-nuclear-law-fin?id=pl_50604&amp;preview=true</a>
24	Regulatory review of the safety case for geological disposal Project: SITEX-II; Org: ENSTII IRSN, NEA; EN; 5 d	<a href="http://sitexproject.eu/index_2.html#workshops">http://sitexproject.eu/index_2.html#workshops</a>
25	Management of the Decommissioning Process (N31) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N31_syllabus.html">http://www.ntec.ac.uk/syllabi/N31_syllabus.html</a>
26	International Nuclear Law Essentials (INLE) Project: ; Org: NEA University of Montpellier ; EN; 5 d	<a href="https://www.oecd-nea.org/jcms/pl_15203/international-nuclear-law-essentials-inle">https://www.oecd-nea.org/jcms/pl_15203/international-nuclear-law-essentials-inle</a>
27	Predisposal & Characterisation of Radioactive Waste Project: ; Org: ibc nuclear ; EN; 3 d	<a href="https://www.rsc.org/events/detail/8436/predisposal-and-characterisation-of-radioactive-waste-course">https://www.rsc.org/events/detail/8436/predisposal-and-characterisation-of-radioactive-waste-course</a>
28	Management of Radioactive Waste Project: EURAD-QUESTIONNAIRE; Org: Public Health England ; EN;	<a href="https://www.phe-protectionservices.org.uk/cms/article.php?article=340&amp;course=32&amp;details=true&amp;site=RPTS">https://www.phe-protectionservices.org.uk/cms/article.php?article=340&amp;course=32&amp;details=true&amp;site=RPTS</a>
29	Decontamination & dismantling techniques. Project: INSIDER (ELINDER); Org: KIT ; EN; 5 d	<a href="http://insider-h2020.eu/trainingcourses/">http://insider-h2020.eu/trainingcourses/</a>
30	Technical Concepts, Techniques, Methods and Tools for the Assessment of Nuclear Safety and Radiation Protection Project: ; Org: ENSTTI, IRSN ; EN; 3 w	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
31	EERRI Research Reactor Group Fellowship Programme Project: VINCO; Org: Centre for Energy Research, Hungarian Academy of Sciences with Institute of Nuclear Techniques of Budapest University of Technology and Economics ; EN; 1.5 m	<a href="https://nucleus.iaea.org/sites/connect/RRIHpublic/Pages/EERRI-Group-Fellowship.aspx">https://nucleus.iaea.org/sites/connect/RRIHpublic/Pages/EERRI-Group-Fellowship.aspx</a>
32	Application of Nuclear Safety Concepts in the Development of Regulations and Guidance Project: ; Org: ENSTTI, IRSN ; EN; 6 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
33	State-of-the-art computer codes Project: ; Org: NEA ; EN; variable	<a href="https://www.oecd-nea.org/jcms/pl_52270/training-courses-on-state-of-the-art-computer-codes">https://www.oecd-nea.org/jcms/pl_52270/training-courses-on-state-of-the-art-computer-codes</a>



## WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 5. Facility design and the practicalities of construction, operation and closure

#	Course	Link
34	Radiation Protection and Confinement Systems Project: ; Org: ENSTI, IRSN ; SP; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
35	Regulatory Control of Nuclear Sites: Inspection of Safety Systems, Structures and Components Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
36	Nuclear Waste Management Project: ; Org: CEA, ENEN ; EN; 1 w	<a href="https://inst.cea.fr/formation/nuclear-waste-management-international-school-in-nuclear-engineering/">https://inst.cea.fr/formation/nuclear-waste-management-international-school-in-nuclear-engineering/</a>
37	Nuclear Safety with respect to radioactive waste management facilities Project: ; Org: TUV ; EN; 2 d	<a href="https://www.tuvsgd.com/it-it/store/italia/english-training/nuclear-english-courses/nuclear-safety-with-respect-to-radioactive-waste-management-facilities">https://www.tuvsgd.com/it-it/store/italia/english-training/nuclear-english-courses/nuclear-safety-with-respect-to-radioactive-waste-management-facilities</a>
38	Planning for Environmental Remediation Project: ; Org: IAEA ; EN; 4h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=500">https://elearning.iaea.org/m2/enrol/index.php?id=500</a>
39	Nuclear Materials Protection, Nuclear Safeguards and Interface with Nuclear Safety Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
40	Computer Control of Experiments Project: VINCO; Org: CTU Prague, FNSPE ; EN;	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
41	Control systems of Nuclear Reactors Project: VINCO; Org: CTU Prague, FNSPE ; EN; 9 m	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
42	Processing, Storage and Disposal of Nuclear Wastes (N10) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N10_syllabus.html">http://www.ntec.ac.uk/syllabi/N10_syllabus.html</a>
43	Decommissioning Implementation Project: ; Org: IAEA ; EN, JP; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=518">https://elearning.iaea.org/m2/enrol/index.php?id=518</a>
44	Online Summer School on Nuclear decommissioning and Waste Management Project: ELINDER; Org: Joint Research Centre (JRC) ; EN; 5d	<a href="https://ec.europa.eu/jrc/en/event/training-course/ndwm-summer-school">https://ec.europa.eu/jrc/en/event/training-course/ndwm-summer-school</a>
45	Spent Fuel Storage Project: ; Org: IAEA ; EN, Japanese; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=5610">https://elearning.iaea.org/m2/enrol/index.php?id=5610</a>
46	Technical and managing staff Project: VINCO; Org: VUJE as. ; EN; 480 h	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
47	The chemistry of f-elements Project: ; Org: TU Dresden Other institutions from: USA, Russia, France, Germany; EN; 1 w	<a href="https://tu-dresden.de/mn/chemie/ac/ac3/die-professor/news/international-autumn-school-the-chemistry-of-f-elements-1">https://tu-dresden.de/mn/chemie/ac/ac3/die-professor/news/international-autumn-school-the-chemistry-of-f-elements-1</a>
48	The ThUL School in Actinide Chemistry Project: ; Org: HZDR (organized by different institutes every year) Several researcher centers & universities; EN; 1 w	<a href="https://www.hzdr.de/db/Cms?pOld=44510&amp;pNid=3488">https://www.hzdr.de/db/Cms?pOld=44510&amp;pNid=3488</a>
49	Conditioning, disposal & final disposal of radioactive waste Project: ; Org: AiNT ; GR; 4 d	<a href="https://www.nuclear-training.de/seminar-details/modul-6-1210.html">https://www.nuclear-training.de/seminar-details/modul-6-1210.html</a>
50	Radioactive material transport Project: ; Org: CIEMAT ; SP; 30h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=154">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=154</a>
51	Fundamentals of geological disposal (PETRUS) Project: ENEN/PETRUS; Org: ITC ; EN; 10 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=89">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=89</a>
52	Decommissioning of Nuclear Facilities Project: none; Org: Czech Technical University in Prague ; CZ; 3 y	<a href="https://www.fifi.cvut.cz/en/education/bachelor-s-study/fields-of-bachelor-programme-new/decommissioning-of-nuclear-facilities-bc">https://www.fifi.cvut.cz/en/education/bachelor-s-study/fields-of-bachelor-programme-new/decommissioning-of-nuclear-facilities-bc</a>
53	Near Surface Disposal Project: ; Org: IAEA ; EN; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=354">https://elearning.iaea.org/m2/enrol/index.php?id=354</a>
54	DOT/NRC Radioactive Waste Packaging, Transportation and Disposal Project: ; Org: EnergySolutions ; EN; 32 h	<a href="https://www.energysolutionstraining.com/core/files/energysolutionstrainining/uploads/files/Course%20Catalog(3).pdf">https://www.energysolutionstraining.com/core/files/energysolutionstrainining/uploads/files/Course%20Catalog(3).pdf</a>
55	Introduction to the MARSSIM tool Project: ; Org: TECNATOM S.A ; SP; 6h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=57">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=57</a>
56	Regulatory Review of Safety Cases for Geological Disposal of Radioactive Waste Project: SITEX-II; Org: NEA, Integration Group for the Safety Case (IGSC) ; EN; 2 d	<a href="http://sitexproject.eu/index_2.html#workshops_201702">http://sitexproject.eu/index_2.html#workshops_201702</a>
57	Monitoring in Geological Disposal of Radioactive Waste Project: Modern2020; Org: Äspö Hard Rock Laboratory, Sweden. ; EN; 5 d	<a href="http://www.modern2020.eu/training/learning-outcomes.html">http://www.modern2020.eu/training/learning-outcomes.html</a>
58	Microbiology and disposal of radioactive waste (PETRUS) Project: ENEN/PETRUS; Org: MICANS ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=95">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=95</a>
59	Understanding Thermo-Hydro-Mechanical processes for safety assessment: theory and numerical simulation (PETRUS) Project: ENEN/PETRUS; Org: CARDIFF ; EN; 6 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=69">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=69</a>
60	Fundamentals of long-term safety analysis (PETRUS) Project: ENEN/PETRUS; Org: Technische Universität Clausthal Institut für Endlagerforschung ; EN;	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=116">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=116</a>
61	Physics and Chemistry of the Actinides Project: ; Org: Institut des Sciences Chimiques de Rennes Other (not specified yet); EN; 4 d	<a href="https://ida2020.sciencesconf.org/">https://ida2020.sciencesconf.org/</a>
62	Emergency Response to Transport Accidents involving Radioactive Materials at Sea and in Port Zones Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
63	Nuclear Energy and The Nuclear Fuel Cycle Project: ANNETTE; Org: University of Central Lancashire Courses; EN; 2 w	<a href="http://www.dimnp.unipi.it/walter-ambrosini/SC4101%20%20ANNETTE%20UCLan%20V15.05.html">http://www.dimnp.unipi.it/walter-ambrosini/SC4101%20%20ANNETTE%20UCLan%20V15.05.html</a>
64	Nuclear Criticality Safety Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
65	Reactor physics and operation Project: VINCO; Org: CTU Prague, FNSPE ; EN;	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
66	CRISTAL - Tools for Criticality Safety Calculation Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
67	Operational control room staff, verification physicist, simulator training instructors Project: VINCO; Org: VUJE a.s. ; EN; 900 h	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
68	Engineered Barrier Systems - Bentonite properties and applications Project: EURAD-QUESTIONNAIRE; Org: Grimsel ; EN; 5 d	<a href="https://www.grimsel.com/gts-information/grimsel-training-centre-gtc">https://www.grimsel.com/gts-information/grimsel-training-centre-gtc</a>
69	Disused Sealed Radioactive sources Project: ; Org: IAEA ; EN, SP,FR; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=376">https://elearning.iaea.org/m2/enrol/index.php?id=376</a>
70	Nuclear Waste Management – International school in nuclear engineering Project: EURAD-QUESTIONNAIRE; Org: CEA ; EN; 5 d (30 h)	<a href="http://www-inst.cea.fr/en/education-and-training/continuing-education/short-courses/international-school-in-nuclear-engineering-nuclear-waste-management_193695.html">http://www-inst.cea.fr/en/education-and-training/continuing-education/short-courses/international-school-in-nuclear-engineering-nuclear-waste-management_193695.html</a>
71	Service and operational staff Courses Project: VINCO; Org: VUJE a.s. ; EN; 200 h	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
72	Geological storage in Precambrian bedrock (PETRUS) Project: ENEN/PETRUS; Org: Äspö Hard Rock Laboratory, Sweden ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=112">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=112</a>

**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 5. Facility design and the practicalities of construction, operation and closure**

#	Course	Link
73	Transport and Retention of Radionuclides in Argillaceous and Fractured Media (PETRUS) Project: ENEN/PETRUS; Org: ITC ; EN;	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=104">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=104</a>
74	Release of radioactive materials and nuclear system component Project: ; Org: AiNT ; GR; 2 d	<a href="https://www.nuclear-training.de/seminar-details/modul-2-1205.html">https://www.nuclear-training.de/seminar-details/modul-2-1205.html</a>
75	Actinide Science & Applications Project: ; Org: JRC and other international organisations; EN; 1 w	<a href="https://www.eumonitor.eu/9353000/1/j9vvik7m1c3gyxp/vjrb78660typ?ctx=vh77ivSiCpmz&amp;v=1&amp;tab=1&amp;start_tab1=50">https://www.eumonitor.eu/9353000/1/j9vvik7m1c3gyxp/vjrb78660typ?ctx=vh77ivSiCpmz&amp;v=1&amp;tab=1&amp;start_tab1=50</a>
76	Radioactive Waste Cementation Project: ; Org: ICTP-IAEA AEA, PNNL, CEA, Savannah River National, NFWF, Imperial College London, IGBM RAS, USDF, Kazan State University, VNIINM; EN; 14 d	<a href="http://indico.ictp.it/event/9129/overview">http://indico.ictp.it/event/9129/overview</a>
77	Safety advisor in the transport of radioactive material Project: ; Org: Ecoquimica Logística Integral ; EN;	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=210">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=210</a>
78	Introductory course on EURAD and Radioactive Waste Management Project: EURAD; Org: EURAD WP 13 ; EN; 1 d	<a href="https://euradschool.eu/event/eurad_and_radioactive_waste_management/">https://euradschool.eu/event/eurad_and_radioactive_waste_management/</a>



WP 13.Training and Mobility

## **Appendix G. Alignment of the available courses with the roadmap: Theme 6. Siting and licensing**

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## WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 6. Siting and licensing

Table 7. List of courses aligned with the theme 6 of EURAD roadmap: Siting and licensing.

#	Course	Link
1	Final Stage of the Nuclear Lifecycle Project: ANNETTE; Org: KIT and JRC; EN; 5d	<a href="https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en">https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en</a>
2	Geological Disposal at the Josef Experimental Repository (CVUT) Project: ANNETTE; Org: Czech Technical University in Prague (CVUT); EN; 3 d	<a href="https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view">https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view</a>
3	Geological disposal of Radioactive Waste Project: ANNETTE; Org: Université de Lorraine & Universidad Politecnica de Madrid; FR, SP; 93h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html</a>
4	Nuclear Fuel: from Cradle to Grave Project: ANNETTE; Org: KIT and JRC; EN; 1w	<a href="https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf">https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf</a>
5	Nuclear Technology, Nuclear Waste Management and Radiation Protection Project: ANNETTE; Org: ENEN Aalto University, University of Turku, Åbo Akademi University; EN; 1 w	<a href="http://annettesummerschool.aalto.fi/">http://annettesummerschool.aalto.fi/</a>
6	Decommissioning of nuclear installations Project: ENEN/ ELINDER; Org: SCK•CEN ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5</a>
7	Advanced Nuclear Waste Management Project: EURAD-QUESTIONNAIRE; Org: IMT Atlantique ; EN;	<a href="https://www.imt-atlantique.fr/sites/default/files/document/MSc-IMTAtlantique-AdvancedNuclear.pdf">https://www.imt-atlantique.fr/sites/default/files/document/MSc-IMTAtlantique-AdvancedNuclear.pdf</a>
8	Fundamentals of Geological Disposal Project: EURAD-QUESTIONNAIRE; Org: Grimsel Training Centre - Nuclear Training Solutions ; EN; 5 d	<a href="http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018">http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018</a>
9	Nuclear Decommissioning, Waste Management and environmental Site Remediation Project: EURAD-QUESTIONNAIRE; Org: NINE (MMARS) ; EN;	<a href="http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation">http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation</a>
10	Radioactive Waste Management Project: EURAD-QUESTIONNAIRE; Org: CIEMAT UPM, ENRESA; SP; 60 h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html">http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html</a>
11	School of Geological Disposal - Basis for developing safe geological disposal Project: EURAD-QUESTIONNAIRE; Org: SKB ; EN; 5 d	<a href="https://www.skb.se/sgd2019/">https://www.skb.se/sgd2019/</a>
12	Storage of radioactive waste (PETRUS) Project: EURAD-QUESTIONNAIRE; Org: Mines Nancy Artem ; EN;	<a href="https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8ai/">https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8ai/</a>
13	International School of Nuclear Law (ISNL) Project: ; Org: NEA University of Montpellier; EN; 2 w	<a href="https://www.oecd-nea.org/jcms/pl_23822/international-school-of-nuclear-law-isnl">https://www.oecd-nea.org/jcms/pl_23822/international-school-of-nuclear-law-isnl</a>
14	Regulatory Review and Assessment of the Safety Case for Disposal Facilities Project: ; Org: ENSTTI, IRSN ; EN; 15 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
15	Decommissioning of radioactive and nuclear facilities Project: ; Org: CIEMAT ; SP; 30 h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=146">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=146</a>
16	Disposal of Radioactive Waste Project: ; Org: IAEA ; EN, RS; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
17	Fundamentals of RW disposal Project: ; Org: IAEA ; EN RS;	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
18	Geological Disposal Project: ; Org: IAEA ; EN; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=356">https://elearning.iaea.org/m2/enrol/index.php?id=356</a>
19	Borehole Disposal Project: ; Org: IAEA ; EN; 3h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=358">https://elearning.iaea.org/m2/enrol/index.php?id=358</a>
20	Radioactive Waste disposal Project: ; Org: SCK•CEN ; EN; w	<a href="https://www.sckcen.be/en/academy/training-courses/personalized-training-courses/customized-training-courses-radioactive-waste-disposal">https://www.sckcen.be/en/academy/training-courses/personalized-training-courses/customized-training-courses-radioactive-waste-disposal</a>
21	Central European School - 9th International School on Nuclear Power in Poland Project: VINCO; Org: National Centre for Nuclear Research (NCBJ) (China General Nuclear Power Corporation, EDF, General Electric Hitachi, Korea Hydro & Nuclear Power, SNC-Lavalin, Westinghouse; EN; 4 d	<a href="https://www.ncbj.gov.pl/en/aktualosci/9th-international-school-nuclear-power">https://www.ncbj.gov.pl/en/aktualosci/9th-international-school-nuclear-power</a> <a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bc9e695a&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bc9e695a&amp;appId=PPGMS</a>
22	Decommissioning, Radioactive Waste and Environmental Management (SC4110) Project: ANNETTE; Org: University of Central Lancashire Courses; EN; 1 w	<a href="http://www.dimnp.unipi.it/walter-ambrosini/SC4110%20%20ANNETTE%20UCLan%20V15.05.html">http://www.dimnp.unipi.it/walter-ambrosini/SC4110%20%20ANNETTE%20UCLan%20V15.05.html</a>
23	Fundamentals of International Nuclear Law (FINL) Project: ; Org: NEA ; EN; 9h	<a href="https://www.oecd-nea.org/jcms/pl_50604/fundamentals-of-international-nuclear-law-finl?id=pl_50604&amp;preview=true">https://www.oecd-nea.org/jcms/pl_50604/fundamentals-of-international-nuclear-law-finl?id=pl_50604&amp;preview=true</a>

## WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 6. Siting and licensing

#	Course	Link
24	Regulatory review of the safety case for geological disposal Project: SITEX-II; Org: ENSTII IRSN, NEA; EN; 5 d	<a href="http://sitexproject.eu/index_2.html#workshops">http://sitexproject.eu/index_2.html#workshops</a>
25	Management of the Decommissioning Process (N31) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N31_syllabus.html">http://www.ntec.ac.uk/syllabi/N31_syllabus.html</a>
26	International Nuclear Law Essentials (INLE) Project: ; Org: NEA University of Montpellier ; EN; 5 d	<a href="https://www.oecd-nea.org/jcms/pl_15203/international-nuclear-law-essentials-inle">https://www.oecd-nea.org/jcms/pl_15203/international-nuclear-law-essentials-inle</a>
27	Predisposal & Characterisation of Radioactive Waste Project: ; Org: ibc nuclear ; EN; 3 d	<a href="https://www.rsc.org/events/detail/8436/predisposal-and-characterisation-of-radioactive-waste-course">https://www.rsc.org/events/detail/8436/predisposal-and-characterisation-of-radioactive-waste-course</a>
28	Management of Radioactive Waste Project: EURAD-QUESTIONNAIRE; Org: Public Health England ; EN;	<a href="https://www.phe-protectionservices.org.uk/cms/article.php?article=340&amp;course=32&amp;details=true&amp;site=RPTS">https://www.phe-protectionservices.org.uk/cms/article.php?article=340&amp;course=32&amp;details=true&amp;site=RPTS</a>
29	Decontamination & dismantling techniques. Project: INSIDER (ELINDER); Org: KIT ; EN; 5 d	<a href="http://insider-h2020.eu/trainingcourses/">http://insider-h2020.eu/trainingcourses/</a>
30	Decommissioning, Radioactive Waste and Environmental Management(N04) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N04_syllabus.html">http://www.ntec.ac.uk/syllabi/N04_syllabus.html</a>
31	Policy, Regulation and Licensing (N09) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N09_syllabus.html">http://www.ntec.ac.uk/syllabi/N09_syllabus.html</a>
32	Application of Nuclear Safety Concepts in the Development of Regulations and Guidance Project: ; Org: ENSTI, IRSN ; EN; 6 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
33	Environmental Remediation Project: ; Org: IAEA ; EN; 4h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=500">https://elearning.iaea.org/m2/enrol/index.php?id=500</a>
34	Processing, Storage and Disposal of Nuclear Wastes (N10) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N10_syllabus.html">http://www.ntec.ac.uk/syllabi/N10_syllabus.html</a>
35	Decommissioning Implementation Project: ; Org: IAEA ; EN, JP; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=518">https://elearning.iaea.org/m2/enrol/index.php?id=518</a>
36	Online Summer School on Nuclear decommissioning and Waste Management Project: ELINDER; Org: Joint Research Centre (JRC) ; EN; 5d	<a href="https://ec.europa.eu/jrc/en/event/training-course/ndwm-summer-school">https://ec.europa.eu/jrc/en/event/training-course/ndwm-summer-school</a>
37	Spent Fuel Storage Project: ; Org: IAEA ; EN, Japanese; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=561">https://elearning.iaea.org/m2/enrol/index.php?id=561</a>
38	Technical and managing staff Project: VINCO; Org: VUJE a.s. ; EN; 480 h	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5&amp;appId=PPGMS</a>
39	JOPRAD – Towards a Joint Programming on Radioactive Waste Project: SITEX-II; Org: JOPRAD ; EN; 2 d	<a href="http://sitexproject.eu/index_2.html#workshops_201609">http://sitexproject.eu/index_2.html#workshops_201609</a>
40	Conditioning, disposal & final disposal of radioactive waste Project: ; Org: AINT ; GR; 4 d	<a href="https://www.nuclear-training.de/seminar-details/modul-6-1210.html">https://www.nuclear-training.de/seminar-details/modul-6-1210.html</a>
41	Fundamentals of geological disposal (PETRUS) Project: ENEN/PETRUS; Org: ITC ; EN; 10 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=89">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=89</a>
42	Decommissioning of Nuclear Facilities Project: none; Org: Czech Technical University in Prague ; CZ; 3 y	<a href="https://www.fifi.cvut.cz/en/education/bachelor-s-study/fields-of-bachelor-programme-new/decommissioning-of-nuclear-facilities-bc">https://www.fifi.cvut.cz/en/education/bachelor-s-study/fields-of-bachelor-programme-new/decommissioning-of-nuclear-facilities-bc</a>
43	Near Surface Disposal Project: ; Org: IAEA ; EN; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=354">https://elearning.iaea.org/m2/enrol/index.php?id=354</a>
44	DOT/NRC Radioactive Waste Packaging, Transportation and Disposal Project: ; Org: EnergySolutions ; EN; 32 h	<a href="https://www.energysolutionstraining.com/core/files/energysolutionstrainining/uploads/files/Course%20Catalog(3).pdf">https://www.energysolutionstraining.com/core/files/energysolutionstrainining/uploads/files/Course%20Catalog(3).pdf</a>
45	Introduction to the MARSSIM tool Project: ; Org: TECNATOM S.A ; SP; 6h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=57">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=57</a>
46	Regulatory Review of Safety Cases for Geological Disposal of Radioactive Waste Project: SITEX-II; Org: NEA, Integration Group for the Safety Case (IGSC) ; EN; 2 d	<a href="http://sitexproject.eu/index_2.html#workshops_201702">http://sitexproject.eu/index_2.html#workshops_201702</a>
47	Thermal-hydraulics and chemistry in HLM reactors; Project: MYRTE - MYRRHA Research and Transmutation Endeavour; Org: MYRTE - MYRRHA Research and Transmutation Endeavour ; EN; 5 d	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b3985c3f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b3985c3f&amp;appId=PPGMS</a>
48	Engineered Barrier Systems - Bentonite properties and applications Project: EURAD-QUESTIONNAIRE; Org: Grimsel ; EN; 5 d	<a href="https://www.grimsel.com/gts-information/grimsel-training-centre-gtc">https://www.grimsel.com/gts-information/grimsel-training-centre-gtc</a>
49	Nuclear Waste Management – International school in nuclear engineering Project: EURAD-QUESTIONNAIRE; Org: CEA ; EN; 5 d (30 h)	<a href="http://www-instn.cea.fr/en/education-and-training/continuing-education/short-courses/international-school-in-nuclear-engineering-nuclear-waste-management_1936959.html">http://www-instn.cea.fr/en/education-and-training/continuing-education/short-courses/international-school-in-nuclear-engineering-nuclear-waste-management_1936959.html</a>



## WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 6. Siting and licensing

#	Course	Link
50	Service and operational staff Courses Project: VINCO; Org: VUJE a.s. ; EN; 200 h	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
51	Nuclear fuel cycle Project: ANNETTE; Org: The Belgian Nuclear Education Network; EN; 90 h	<a href="https://bnen.sckcen.be/courses/nuclear-fuel-cycle">https://bnen.sckcen.be/courses/nuclear-fuel-cycle</a>
52	Migration of radioactive waste from deep geological waste repositories - Case Study (PETRUS) Project: ENEN/PETRUS; Org: BME ; EN; 6 h	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=78">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=78</a>



#### WP 13.Training and Mobility

#### **Appendix H. Alignment of the available courses with the roadmap: Theme 7. Performance assessment, safety analysis and safety case development**

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**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 7. Performance assessment, safety analysis and safety case development.**

Table 8. List of courses aligned with the theme 7 of EURAD roadmap: Performance assessment, safety analysis and safety case development.

#	Course	Link
1	Final Stage of the Nuclear Lifecycle Project: ANNETTE; Org: KIT and JRC; EN; 5D	<a href="https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en">https://joint-research-centre.ec.europa.eu/events/annette-teaching-module-final-stage-nuclear-lifecycle-2019-12-02_en</a>
2	Geological Disposal at the Josef Experimental Repository (CVUT) Project: ANNETTE; Org: Czech Technical University in Prague (CVUT); EN; 3 d	<a href="https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view">https://ceg.fsv.cvut.cz/en/copy_of_annette-courses-are-being-offered/view</a>
3	Geological disposal of Radioactive Waste Project: ANNETTE; Org: Université de Lorraine & Universidad Politecnica de Madrid; FR, SP; 93h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html">http://www.dimnp.unipi.it/walter-ambrosini/Geological%20Disposal%20Further.html</a>
4	Nuclear Fuel: from Cradle to Grave Project: ANNETTE; Org: KIT and JRC; EN; 1w	<a href="https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf">https://www.ine.kit.edu/downloads/ANNETTE_NucFuel-Cradle2Grave_2018.pdf</a>
5	Nuclear Technology, Nuclear Waste Management and Radiation Protection Project: ANNETTE; Org: ENEN Aalto University, University of Turku, Åbo Akademi University; EN; 1 w	<a href="http://annettesummerschool.aalto.fi/">http://annettesummerschool.aalto.fi/</a>
6	Decommissioning of nuclear installations Project: ENEN/ ELINDER; Org: SCK•CEN ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=5</a>
7	Advanced Nuclear Waste Management Project: EURAD-QUESTIONNAIRE; Org: IMT Atlantique ; EN;	<a href="https://www.imt-atlantique.fr/sites/default/files/document/MSc-IMTAtlantique-AdvancedNuclear.pdf">https://www.imt-atlantique.fr/sites/default/files/document/MSc-IMTAtlantique-AdvancedNuclear.pdf</a>
8	Fundamentals of Geological Disposal Project: EURAD-QUESTIONNAIRE; Org: Grimsel Training Centre - Nuclear Training Solutions ; EN; 5 d	<a href="http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018">http://www.nucleartrainingsolutions.com/nts-courses/gtc-nts-fundamentals-of-geological-disposal-2018</a>
9	Nuclear Decommissioning, Waste Management and environmental Site Remediation Project: EURAD-QUESTIONNAIRE; Org: NINE (MMARS) ; EN;	<a href="http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation">http://www.nineeng.com/courses/nuclear-decommissioning-waste-management-and-environmental-site-remediation</a>
10	Radioactive Waste Management Project: EURAD-QUESTIONNAIRE; Org: CIEMAT UPM, ENRESA; SP; 60 h	<a href="http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html">http://www.dimnp.unipi.it/walter-ambrosini/UPM-1.html</a>
11	School of Geological Disposal - Basis for developing safe geological disposal Project: EURAD-QUESTIONNAIRE; Org: SKB ; EN; 5 d	<a href="https://www.skb.se/sgd2019/">https://www.skb.se/sgd2019/</a>
12	Storage of radioactive waste (PETRUS) Project: EURAD-QUESTIONNAIRE; Org: Mines Nancy Artem ; EN;	<a href="https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8aj/">https://mines-nancy.univ-lorraine.fr/cours/petrus-storage-of-radioactive-waste-ces8aj/</a>
13	International School of Nuclear Law (ISNL) Project: ; Org: NEA University of Montpellier; EN; 2 w	<a href="https://www.oecd-nea.org/cms/pl_23822/international-school-of-nuclear-law-isnl">https://www.oecd-nea.org/cms/pl_23822/international-school-of-nuclear-law-isnl</a>
14	Regulatory Review and Assessment of the Safety Case for Disposal Facilities Project: ; Org: ENSTTI, IRSN ; EN; 15 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
15	Decommissioning of radioactive and nuclear facilities Project: ; Org: CIEMAT ; SP; 30 h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=146">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=146</a>
16	Disposal of Radioactive Waste Project: ; Org: IAEA ; EN, RS; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
17	Fundamentals of RW disposal Project: ; Org: IAEA ; EN RS;	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=357">https://elearning.iaea.org/m2/enrol/index.php?id=357</a>
18	Geological Disposal Project: ; Org: IAEA ; EN; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=356">https://elearning.iaea.org/m2/enrol/index.php?id=356</a>
19	Borehole Disposal Project: ; Org: IAEA ; EN; 3h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=358">https://elearning.iaea.org/m2/enrol/index.php?id=358</a>
20	Radioactive Waste disposal Project: ; Org: SCK•CEN ; EN; w	<a href="https://www.sckcen.be/en/academy/training-courses/personalized-training-courses/customized-training-courses-radioactive-waste-disposal">https://www.sckcen.be/en/academy/training-courses/personalized-training-courses/customized-training-courses-radioactive-waste-disposal</a>
21	Central European School - 9th International School on Nuclear Power in Poland Project: VINCO; Org: National Centre for Nuclear Research (NCBJ) (China General Nuclear Power Corporation, EDF, General Electric Hitachi, Korea Hydro & Nuclear Power, SNC-Lavalin, Westinghouse; EN; 4 d	<a href="https://www.ncbj.gov.pl/en/aktualnosci/9th-international-school-nuclear-power">https://www.ncbj.gov.pl/en/aktualnosci/9th-international-school-nuclear-power</a> <a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bc9e695a&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bc9e695a&amp;appId=PPGMS</a>
22	Decommissioning, Radioactive Waste and Environmental Management (SC4110) Project: ANNETTE; Org: University of Central Lancashire Courses; EN; 1 w	<a href="http://www.dimnp.unipi.it/walter-ambrosini/SC4110%20%20ANNETTE%20UCLan%20V15.05.html">http://www.dimnp.unipi.it/walter-ambrosini/SC4110%20%20ANNETTE%20UCLan%20V15.05.html</a>
23	Fundamentals of International Nuclear Law (FINL) Project: ; Org: NEA ; EN; 9h	<a href="https://www.oecd-nea.org/cms/pl_50604/fundamentals-of-international-nuclear-law-fin?id=pl_50604&amp;preview=true">https://www.oecd-nea.org/cms/pl_50604/fundamentals-of-international-nuclear-law-fin?id=pl_50604&amp;preview=true</a>

## WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 7. Performance assessment, safety analysis and safety case development.

24	Regulatory review of the safety case for geological disposal Project: SITEX-II; Org: ENSTII IRSN, NEA; EN; 5 d	<a href="http://sitexproject.eu/index_2.html#workshops">http://sitexproject.eu/index_2.html#workshops</a>
25	Management of the Decommissioning Process (N31) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N31_syllabus.html">http://www.ntec.ac.uk/syllabi/N31_syllabus.html</a>
26	International Nuclear Law Essentials (INLE) Project: ; Org: NEA University of Montpellier ; EN; 5 d	<a href="https://www.oecd-nea.org/jcms/pl_15203/international-nuclear-law-essentials-inle">https://www.oecd-nea.org/jcms/pl_15203/international-nuclear-law-essentials-inle</a>
27	Predisposal & Characterisation of Radioactive Waste Project: ; Org: ibc nuclear ; EN; 3 d	<a href="https://www.rsc.org/events/detail/8436/predisposal-and-characterisation-of-radioactive-waste-course">https://www.rsc.org/events/detail/8436/predisposal-and-characterisation-of-radioactive-waste-course</a>
28	Management of Radioactive Waste Project: EURAD-QUESTIONNAIRE; Org: Public Health England ; EN;	<a href="https://www.phe-protectionservices.org.uk/cms/article.php?article=340&amp;course=32&amp;details=true&amp;site=RPTS">https://www.phe-protectionservices.org.uk/cms/article.php?article=340&amp;course=32&amp;details=true&amp;site=RPTS</a>
29	Decontamination & dismantling techniques. Project: INSIDER (ELINDER); Org: KIT ; EN; 5 d	<a href="http://insider-h2020.eu/trainingcourses/">http://insider-h2020.eu/trainingcourses/</a>
30	Decommissioning, Radioactive Waste and Environmental Management(N04) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N04_syllabus.html">http://www.ntec.ac.uk/syllabi/N04_syllabus.html</a>
31	Policy, Regulation and Licensing (N09) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N09_syllabus.html">http://www.ntec.ac.uk/syllabi/N09_syllabus.html</a>
32	Technical Concepts, Techniques, Methods and Tools for the Assessment of Nuclear Safety and Radiation Protection Project: ; Org: ENSTTI, IRSN ; EN; 3 w	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
33	Regulatory Control of the Safety of Spent Fuel & Radioactive Waste Management Project: ; Org: ENSTTI, IRSN ; EN; 5 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
34	Regulatory Control of Radiation Sources Project: ; Org: ENSTTI, IRSN ; EN; 5 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
35	The Legal and Regulatory Basis for Nuclear and Radiation Safety Project: ; Org: ENSTTI, IRSN ; EN; 5 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
36	EERRI Research Reactor Group Fellowship Programme Project: VINCO; Org: Centre for Energy Research, Hungarian Academy of Sciences with Institute of Nuclear Techniques of Budapest University of Technology and Economics ; EN; 1.5 m	<a href="https://nucleus.iaea.org/sites/connect/RRIpublic/Pages/EERRI-Group-Fellowship.aspx">https://nucleus.iaea.org/sites/connect/RRIpublic/Pages/EERRI-Group-Fellowship.aspx</a>
37	Application of Nuclear Safety Concepts in the Development of Regulations and Guidance Project: ; Org: ENSTTI, IRSN ; EN; 6 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
38	State-of-the-art computer codes Project: ; Org: NEA ; EN; variable	<a href="https://www.oecd-nea.org/jcms/pl_52270/training-courses-on-state-of-the-art-computer-codes">https://www.oecd-nea.org/jcms/pl_52270/training-courses-on-state-of-the-art-computer-codes</a>
39	Radiation Protection and Confinement Systems Project: ; Org: ENSTTI, IRSN ; SP; 5 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
40	Regulatory Control of Nuclear Sites: Inspection of Safety Systems, Structures and Components Project: ; Org: ENSTTI, IRSN ; EN; 5 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
41	Nuclear Waste Management Project: ; Org: CEA, ENEN ; EN; 1 w	<a href="https://instn.cea.fr/formation/nuclear-waste-management-international-school-in-nuclear-engineering/">https://instn.cea.fr/formation/nuclear-waste-management-international-school-in-nuclear-engineering/</a>
42	Nuclear Safety with respect to radioactive waste management facilities Project: ; Org: TUV ; EN; 2 d	<a href="https://www.tuvsgroup.com/it-it/store/italia/english-training/nuclear-english-courses/nuclear-safety-with-respect-to-radioactive-waste-management-facilities">https://www.tuvsgroup.com/it-it/store/italia/english-training/nuclear-english-courses/nuclear-safety-with-respect-to-radioactive-waste-management-facilities</a>
43	Planning for Environmental Remediation Project: ; Org: IAEA ; EN; 4h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=500">https://elearning.iaea.org/m2/enrol/index.php?id=500</a>
44	Nuclear Materials Protection, Nuclear Safeguards and Interface with Nuclear Safety Project: ; Org: ENSTTI, IRSN ; EN; 5 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>
45	Computer Control of Experiments Project: VINCO; Org: CTU Prague, FNSPE ; EN;	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
46	Metrology for Waste Characterization and Clearance Project: ; Org: JRC ; EN; 5 d	<a href="https://ec.europa.eu/jrc/en/training-programme/metrology-waste-characterization-and-clearance-elinder-course-s7">https://ec.europa.eu/jrc/en/training-programme/metrology-waste-characterization-and-clearance-elinder-course-s7</a>
47	How does corrosion influence the health of concrete? Project: ; Org: IETCC ; SP; 2 h	<a href="https://www.ietcc.csic.es/noticias/como-influye-la-corrosion-en-la-salud-del-hormigon-how-does-corrosion-influence-the-health-of-concrete/">https://www.ietcc.csic.es/noticias/como-influye-la-corrosion-en-la-salud-del-hormigon-how-does-corrosion-influence-the-health-of-concrete/</a>
48	Regulatory Control of Radiation Protection in Mining and Minerals Processing Facilities and Activities Project: ; Org: ENSTTI, IRSN ; EN; 5 d	<a href="https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf">https://enstti.eu/wp/wp-content/uploads/2020/03/enstti_catalogue_2020.pdf</a>

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49	Nuclear Waste Management Project: ENEN; Org: CEA ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=42">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=42</a>
50	Material and waste management in decommissioning Project: INSIDER (ELINDER); Org: CEA-INSTN ; EN;	<a href="http://insider-h2020.eu/trainingcourses/">http://insider-h2020.eu/trainingcourses/</a>
51	Application of International Regulations in Qualification and Approval of Packages for the Transport of Radioactive Materials Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
52	Digital Safety Systems of Nuclear Reactors Project: VINCO; Org: CTU Prague, FNSPE ; EN;	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
53	Nuclear Safety Case Development (N07) Project: ANNETTE; Org: University of Manchester – NTEC Courses; EN;	<a href="http://www.ntec.ac.uk/syllabi/N07_syllabus.html">http://www.ntec.ac.uk/syllabi/N07_syllabus.html</a>
54	Regulatory Issues and Standards(PETRUS) Project: ENEN/PETRUS; Org: ITC ; EN;	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=82">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=82</a>
55	Implementing Nuclear Safeguards in practice Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
56	Environmental Remediation Project: ; Org: IAEA ; EN; 4h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=500">https://elearning.iaea.org/m2/enrol/index.php?id=500</a>
57	Control systems of Nuclear Reactors Project: VINCO; Org: CTU Prague, FNSPE ; EN; 9 m	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
58	Fundamentals of geological disposal (PETRUS) Project: ENEN/PETRUS; Org: ITC ; EN; 10 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=89">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=89</a>
59	Decommissioning of Nuclear Facilities Project: none; Org: Czech Technical University in Prague ; CZ; 3 y	<a href="https://www.fifi.cvut.cz/en/education/bachelor-s-study/fields-of-bachelor-programme-new/decommissioning-of-nuclear-facilities-bc">https://www.fifi.cvut.cz/en/education/bachelor-s-study/fields-of-bachelor-programme-new/decommissioning-of-nuclear-facilities-bc</a>
60	Near Surface Disposal Project: ; Org: IAEA ; EN; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=354">https://elearning.iaea.org/m2/enrol/index.php?id=354</a>
61	DOT/NRC Radioactive Waste Packaging, Transportation and Disposal Project: ; Org: EnergySolutions ; EN; 32 h	<a href="https://www.energysolutionstraining.com/core/files/energysolutionstrainining/uploads/files/Course%20Catalog(3).pdf">https://www.energysolutionstraining.com/core/files/energysolutionstrainining/uploads/files/Course%20Catalog(3).pdf</a>
62	Introduction to the MARSSIM tool Project: ; Org: TECNATOM S.A ; SP; 6h	<a href="https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=57">https://ceiden.com/formacion-descripcion/cursos-disponibles/?view=57</a>
63	Regulatory Review of Safety Cases for Geological Disposal of Radioactive Waste Project: SITEX-II; Org: NEA, Integration Group for the Safety Case (IGSC) ; EN; 2 d	<a href="http://sitexproject.eu/index_2.html#workshops_201702">http://sitexproject.eu/index_2.html#workshops_201702</a>
64	Thermal-hydraulics and chemistry in HLM reactors Project: MYRTE - MYRRHA Research and Transmutation Endeavour; Org: MYRTE - MYRRHA Research and Transmutation Endeavour ; EN; 5 d	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b3985c3f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b3985c3f&amp;appId=PPGMS</a>
65	Monitoring in Geological Disposal of Radioactive Waste Project: Modern2020; Org: Äspö Hard Rock Laboratory, Sweden. ; EN; 5 d	<a href="http://www.modern2020.eu/training/learning-outcomes.html">http://www.modern2020.eu/training/learning-outcomes.html</a>
66	Microbiology and disposal of radioactive waste (PETRUS) Project: ENEN/PETRUS; Org: MICANS ; EN; 5 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=95">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=95</a>
67	Understanding Thermo-Hydro-Mechanical processes for safety assessment: theory and numerical simulation (PETRUS) Project: ENEN/PETRUS; Org: CARDIFF ; EN; 6 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=69">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=69</a>
68	Fundamentals of long-term safety analysis (PETRUS) Project: ENEN/PETRUS; Org: Technische Universität Clausthal Institut für Endlagerforschung ; EN;	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=116">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=116</a>
69	Physics and Chemistry of the Actinides Project: ; Org: Institut des Sciences Chimiques de Rennes Other (not specified yet); EN; 4 d	<a href="https://ida2020.sciencesconf.org/">https://ida2020.sciencesconf.org/</a>
70	Emergency Response to Transport Accidents involving Radioactive Materials at Sea and in Port Zones Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
71	Nuclear Energy and The Nuclear Fuel Cycle Project: ANNETTE; Org: University of Central Lancashire Courses; EN; 2 w	<a href="http://www.dimnp.unipi.it/walter-ambrosini/SC4101%20%20ANNETTE%20UCLan%20V15.05.html">http://www.dimnp.unipi.it/walter-ambrosini/SC4101%20%20ANNETTE%20UCLan%20V15.05.html</a>
72	Nuclear Criticality Safety Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>
73	Reactor physics and operation Project: VINCO; Org: CTU Prague, FNSPE ; EN;	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
74	CRISTAL - Tools for Criticality Safety Calculation Project: ; Org: ENSTI, IRSN ; EN; 5 d	<a href="https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf">https://ensti.eu/wp/wp-content/uploads/2020/03/ensti_catalogue_2020.pdf</a>



**WP 13 Training and mobility – Alignment of the available courses with the roadmap: Theme 7. Performance assessment, safety analysis and safety case development.**

75	Operational control room staff, verification physicist, simulator training instructors Project: VINCO; Org: VUJE a.s. ; EN; 900 h	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
76	Thermochemical Database (TDB) Project course: Thermodynamic data collection and assessment Project: ; Org: NEA KIT-INE, LANL; A21, EMPA; EN; 2 d	<a href="https://www.oecd-nea.org/upload/docs/application/pdf/2020-09/outline_course_paris_2020.pdf">https://www.oecd-nea.org/upload/docs/application/pdf/2020-09/outline_course_paris_2020.pdf</a>
77	Theramin technical training school Project: THERAMIN; Org: CEA EDF; EN; 3 d	<a href="http://www.theramin-h2020.eu/downloads/THERAMIN%20Training%20school%20flyer.pdf">http://www.theramin-h2020.eu/downloads/THERAMIN%20Training%20school%20flyer.pdf</a>
78	From geophysical field data to geological models - theory and hands-on workshop Project: EURAD-QUESTIONNAIRE; Org: Grimsel ; EN; 3 d	<a href="http://www.grimsel.com/images/GTC_Files/GTC_Announcemet_From_Geo_physical_Field_Data_to_Geological_models_Hands_on_workshop.pdf">http://www.grimsel.com/images/GTC_Files/GTC_Announcemet_From_Geo_physical_Field_Data_to_Geological_models_Hands_on_workshop.pdf</a>
79	C-14 behaviour under repository conditions Project: CAST; Org: KIT-INE WAK-HDB; EN; 2 d	<a href="https://www.projectcast.eu/cms-file/get/IFileId/2522">https://www.projectcast.eu/cms-file/get/IFileId/2522</a>
80	Plug and Seal Training Workshop Project: DOPAS; Org: CTU POSIVA; EN; 5 d	<a href="https://posiva.fi/dopas/files/4375/DOPAS_Deliverable_D7_2_Plug_and_Seal_Training_Workshop_planning_and_implementation_report_.pdf">https://posiva.fi/dopas/files/4375/DOPAS_Deliverable_D7_2_Plug_and_Seal_Training_Workshop_planning_and_implementation_report_.pdf</a>
81	Introduction to safety assessment in geological disposal of spent fuel - advanced sessions (PETRUS II) Project: ENEN/PETRUS II; Org: POSIVA ; FN; 4 d	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=100">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=100</a>
82	Mechanical measurements of irradiated materials Project: VINCO; Org: National Centre for Nuclear Research (NCBJ) JAEA; EN; 2 d	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bd507a32&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5bd507a32&amp;appId=PPGMS</a>
83	Numerical simulation in long-term safety analysis - probabilistic methods(PETRUS) Project: ENEN/PETRUS; Org: Technische Universität Clausthal Institut für Endlagerforschung ; EN;	<a href="https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=117">https://euradschool.eu/wp-content/uploads/2021/09/oldENEN-database-ET-info.pdf#page=117</a>
84	Human-Technology-Organisation/Human Factors for Nuclear Safety including Virtual Reality Resources as part of Safety Culture Project: ANNETTE; Org: UPPSALA UNIVERSITY; EN;	<a href="https://nanss.uu.se/education-training/mto-hf-safety-culture/">https://nanss.uu.se/education-training/mto-hf-safety-culture/</a>
85	Introducing safety culture and its application to the nuclear field Project: ANNETTE; Org: ENEN UNED, TECNATOM; EN; 25h	<a href="http://blogs.uned.es/inooc/en/mooc_introducing_safety_culture/">http://blogs.uned.es/inooc/en/mooc_introducing_safety_culture/</a>
86	Safety Case Development Project: ; Org: IAEA ; EN; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=561">https://elearning.iaea.org/m2/enrol/index.php?id=561</a>
87	Szkoła energetyki jądrowej / School of Nuclear Energy Project: VINCO; Org: NCBJ ; PL, EN ; 5 d	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
88	Engineered Barrier Systems - Bentonite properties and applications Project: EURAD-QUESTIONNAIRE; Org: Grimsel ; EN; 5 d	<a href="https://www.grimsel.com/gts-information/grimsel-training-centre-gtc">https://www.grimsel.com/gts-information/grimsel-training-centre-gtc</a>
89	Disused Sealed Radioactive sources Project: ; Org: IAEA ; EN, SP,FR; 5h	<a href="https://elearning.iaea.org/m2/enrol/index.php?id=376">https://elearning.iaea.org/m2/enrol/index.php?id=376</a>
90	New Nuclear Sources Project: VINCO; Org: CTU Prague, FNSPE ; EN;	<a href="https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS">https://ec.europa.eu/research/participants/documents/downloadPublic?documentId=080166e5b06d0d5f&amp;appId=PPGMS</a>
91	Uncertainty Management Project: EURAD; Org: EURAD WP13 ; EN; 3 d	<a href="https://euradschool.eu/event/eurad-training-course-on-uncertainty-management/">https://euradschool.eu/event/eurad-training-course-on-uncertainty-management/</a>
92	Safety Case Development and Review Project: EURAD; Org: EURAD WP13 ; EN; 1 w	<a href="https://euradschool.eu/event/training-course-on-safety-case-development-and-review/">https://euradschool.eu/event/training-course-on-safety-case-development-and-review/</a>
93	Scientific basis and safety relevant aspects of radionuclide transport and retention Project: EURAD; Org: EURAD WP FUTURE ; EN; 1 d	<a href="https://euradschool.eu/event/wp-future-education-training-event-on-the-scientific-basis-and-safety-relevant-aspects-of-radionuclide-transport-and-retention/">https://euradschool.eu/event/wp-future-education-training-event-on-the-scientific-basis-and-safety-relevant-aspects-of-radionuclide-transport-and-retention/</a>
94	Introductory course on EURAD and Radioactive Waste Management Project: EURAD; Org: EURAD WP 13 ; EN; 1 d	<a href="https://euradschool.eu/event/eurad_and_radioactive_waste_management_L">https://euradschool.eu/event/eurad_and_radioactive_waste_management_L</a>