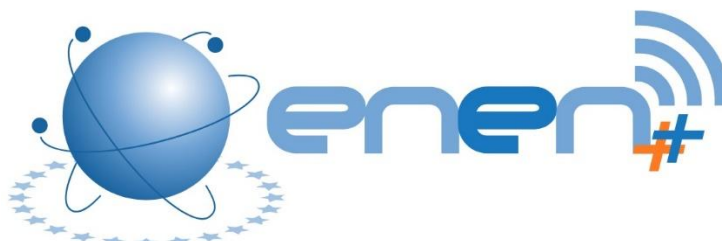




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DELIVERABLE D4.3

European VET platform

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Executive summary

Within the framework of the EURATOM-funded ENEN2plus project, a dedicated public website (<https://nuclear-education.eu/>) has been developed as a single-entry hub providing comprehensive information on education, training, and career opportunities across the nuclear sector. Under Task 2.1, a structured database was designed and implemented to promote existing Education and Training (E&T) programmes offered by the nuclear education community. The coordinators of this task were ENEN, SCK CEN, ENS, EFOMP, CVUT, and other stakeholders.

The ENEN Hub serves as a centralised platform for information on courses, internships, thesis opportunities, job vacancies, and other professional pathways in the nuclear field. It covers a broad spectrum of nuclear disciplines, including nuclear technology, radiation protection, waste management and disposal, decommissioning, medical applications, fusion, space applications, and the integration of social sciences and humanities in nuclear. The platform enables organisations involved in E&T activities to register and upload or update accurate and up-to-date information on their programmes.

The platform targets a wide audience, including secondary school students, BSc/MSc/PhD students, researchers and nuclear professionals. Importantly, the Hub is designed as a long-term resource for the nuclear community and will remain available beyond the duration of the ENEN2plus project.

This report presents the Deliverable D4.3 – European VET Platform, which details the development and integration of the Vocational Education and Training (VET) section within the ENEN Hub. The VET section has been developed in accordance with the structure, logic, and methodological guidance defined in the ENEN Hub Manual, ensuring full consistency with the overall platform architecture.

The European VET Platform follows the established design and navigation principles of the ENEN HUB developments to ensure consistency and a positive user-oriented experience. This deliverable provides an overview of the website, including screenshots and explanatory descriptions of its sections, search functions, and filtering mechanisms.

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1. Nuclear-Education HUB

1.1. General concept of the Nuclear-Education HUB

The Nuclear-Education HUB developed under ENEN2Plus, serves as a centralised information platform for nuclear-related opportunities, including but not limited to:

- **Education & Training (E&T) activities:** Information provided primarily through ENEN2plus WP3 and complemented by direct input from registered database users.
- **Vocational Education & Training (VET) activities:** Information collected through ENEN2plus WP4 and enriched by contributions from course providers.
- **Career opportunities:** Internships, thesis projects, job vacancies, and other professional pathways, initially sourced from ENEN2plus partners and progressively expanded to the wider nuclear sector.

The Nuclear-Education Hub includes content from a broad spectrum of nuclear disciplines, including but not limited to: nuclear technology, radiation protection, waste management and disposal, decommissioning, medical applications, fusion, space applications, and the integration of social sciences and humanities in nuclear.

The platform is designed to enable a focused and user-friendly search experience, allow customised filtering according to the interests and profile of the end-user and seeks to avoid duplication of information through potential interconnections with existing databases and initiatives. All E&T initiatives organised within the ENEN2plus project (e.g. training courses, workshops, events) are systematically integrated into the database. Importantly, the Nuclear-Education Hub is conceived as a long-term resource for the nuclear community and will remain operational beyond the duration of the ENEN2plus project.

2. Website Structure

Header and footer of the website include ENEN logo along with the EU acknowledgement for fundings and disclaimer about expressed opinions.

The Nuclear-Education HUB has got the following backbone structure:

- Home Page - **Figure 1**
- ENEN
 - About ENEN
 - Our Members
 - Working Areas
 - Contact Us
- Organizations
- Projects
- Educational Opportunities
 - VET Platform - **Figure 2**
 - E&T - **Figure 3**

- Resources - **Figure 4**
- Careers - **Figure 5**
- Nucleation - **Figure 6 & 7**
 - Private section where the results of the T4.1 are included - **Figure 8**

2.1. Page Details

ENEN section is purely informative. It includes a subpage that makes an overview on the European Nuclear Education Network, its vast member list and working areas. ENEN is proud to lead the implementation of the European VET Platform, aimed at tackling the fragmentation in nuclear training across the EU. By setting platform requirements and labelling VET offers, we seek to ensure high-quality, standardized training opportunities.

The ORGANISATIONS page allows the users to explore different academic institutions, research centres, other companies that are training providers or involved in E&T actions.

The PROJECT page displays all the projects on ENEN's portfolio, presenting a summary and an invitation to explore the official websites, giving visibility to each project.

The main page is the EDUCATIONAL OPPORTUNITIES page. It has 2 key filters.

- Education & Training (E&T)
- VET Platform

Both sections include open and close activities/courses. The main content was actual information coming from ENEN2Plus consortium Members and feed from other database users. Considering the high research on existing VET actions, part of this data, more specifically the one collected under the task T4.1 was stored in the back-end of the website, under a secured access and linked to the identified course provider. That is the reason why a key step is to contact course providers and have all organizations registering in the Hub in order to preview the identified by the project and to claim all their courses to make them visible and available online. It was required to provide different administrative rights to users as it will be explained in the section Users of the database.

A CAREERS page was created for organizations to promote career development opportunities for academy and private sector (internships, PhD opportunities, thesis work and jobs).

A RESOURCES page was created for organizations to share relevant educational materials (courses slides, chapters of books, research and results). This section includes information on diverse topics and a list of List of (nuclear) facilities available for secondary school visits provided by SCK CEN.

The NUCLEATION Page will be described in the section 4, below.

The structure allows a focused search and a user-friendly interface to enable an easy overview customized to the interest of the end-user. All E&T initiatives organised during the ENEN2Plus project (e.g. training courses, events etc.) are integrated as well in this databases.

2.2. Users of the database

The Nuclear-Education Hub has been designed to accommodate three distinct user groups, each with differentiated levels of access and responsibilities.

The first group consists on the end -users. End-users represent the broad target audience of the platform and include secondary school students, BSc, MSc, and PhD students, vocational learners, nuclear professionals, as well as researchers, educators and trainers. These users access the platform primarily for consultation and search purposes, with typical use cases including identifying courses in specific nuclear disciplines, searching for internships or thesis opportunities, exploring continuing professional development options, and reviewing job vacancies. All publicly available information can be accessed freely without requiring login. However, users who choose to create an account and log in can access extended functionalities, such as saving favourite courses, tracking attended training, and managing training certificates. These features require personal login credentials and corresponding user management on the administrative side.

The second group are the training/course providers and professional organisations. They constitute a key user group, in particular at this early stage of the Hub implementation, and include higher education institutions, vocational training providers, research centres, professional organisations, and institutions offering exchange, internship, or mobility opportunities. These users are responsible for contributing and maintaining content within the database. Contributions can be made either directly, through login access to the advanced database using personal credentials (username/email and password), or indirectly, via information linked from external databases connected to the ENEN Hub. This approach ensures that institutions retain ownership and responsibility for their published content while facilitating regular updates and supporting the long-term sustainability and reliability of the platform.

The third group are the administrators (admin). Administrators have full access to the database and all management functionalities required to ensure the proper operation of the platform. Their responsibilities include overseeing all content, managing user accounts, creating new users, and accessing login credentials when necessary for system administration and maintenance. To ensure operational continuity and data security, it is recommended that administrator rights be assigned to more than one individual, providing redundancy and backup in case of absence or technical issues.

3. VET platform development

3.1. Integration of the European VET Platform

Deliverable D4.3 – *European VET Platform* presents the development and integration of the Vocational Education and Training (VET) section within the Nuclear-Education Hub. The VET section design follows coherent navigation principles and integrates advanced search and filtering functionalities to enhance accessibility and user experience. This platform will feature both existing and new courses designed to address critical skills shortages, with a focus on e-

learning and hybrid delivery methods. Our leadership in this task highlights our commitment to enhancing nuclear education and fostering international collaboration for a sustainable vocational training program.

The integration of the VET platform into the Nuclear Education Hub required a structured series of steps:

- **Step 1 – Definition of Requirements**
 - Definition of functional and structural requirements for the EU VET platform
 - Integration of quality criteria based on the Common Quality Assurance Framework (CQAF / EQAVET) consistent with those for E&T
 - Integration with the implementation of the European Learning Model (ELM);
 - Development of a methodological approach for labelling existing VET offers
- **Step 2 – Data Consolidation and Validation**
 - A comprehensive review and restructuring of the VET course inventory (Excel-based working database) was carried out to classification of courses into **Active proposals** (claimed by course provider or under ENEN2Plus and uploaded to the HUB) and **Inactive proposals** (existing proposals that have been identified but not uploaded to the HUB)
- **Step 3 – Engagement with Course Providers**

When possible, several course providers (as identified in the working database) were contacted to:

- Confirm course availability and accuracy of information,
- Validate contact details,
- Obtain formal agreement and intention to publish the course on the Nuclear-Education Hub,
- Provide registration instructions and guidance for setting up institutional pages,
- Request logos and visual materials where available.

- **Step 4 – Technical Integration and Filtering Structure**

VET Platform was integrated in the “Educational Opportunities” page (detailed in Website Structure sections) therefore the filtering system was refined to ensure intuitive and targeted searches. Filters include, amongst others:

- **Country** (location of the course),
- **Modality** (delivery format: on-site, online, blended, etc.),
- **Language,**
- **Duration,**
- **Target audience** (profile and level of expertise of the applicant).

This structure enables users, including secondary school, bachelor and master students, vocational learners, professionals, and educators, to easily and efficiently identify relevant opportunities according to their background and objectives.

3.2. Private Courses Section

As a result of this mapping process, all identified courses were incorporated into the system architecture. However, due to the absence of formal agreements authorising their public publication, a dedicated Private Courses section was established: <https://nuclear-education.eu/private-opportunities/>

This restricted section contains courses that were identified and collected through a systematic research and crawling process under the task T4.1. Given that limited formal consent for public dissemination has been obtained from the respective course providers:

- These courses are placed in a restricted, non-public area of the website.
- The section is not indexed by search engines (including Google).
- It is not publicly linked within the website navigation.
- Access is limited exclusively to authorised contributors who have been provided with the direct URL.

Website visitors and general end-users do not have access to this section. The content is not intended for public use, distribution, or external referencing at this stage.

The password-protected administrative area is accessible only to authorised users with elevated privileges. This restricted section contains the full catalogue of courses identified in Deliverable D4.1, under the task T4.1. These courses are currently marked as private and will be formally assigned to their respective institutional owners upon completion of registration on the ENEN Hub. At the time of drafting, some courses have not yet been linked to their institutional owners.

4. NUCLEATION Community within the VET Platform

4.1. About NUCLEATION Community

NUCLEATION was established and organised within the framework of the ENEN2plus project. It is conceived as a community of practice dedicated to professionals active in nuclear domains who wish to discuss relevant topics related to vocational education and training (VET), share experience and best practices, seek advice and peer feedback, learn from one another, agree on common actions, and collaborate on competence development initiatives. Its scope covers Vocational Education and Training (VET), lifelong learning, and continuous professional development (CPD) in nuclear-related fields. Given its objectives and target audience, NUCLEATION is considered a strategic component of the European VET Platform and should be structurally integrated within it.

4.2. Membership

The NUCLEATION Community includes an membership application form for individuals who seek to join. Membership is open to professionals primarily from the following backgrounds:

Managers in public or private education and training institutions that develop and deliver vocational training related to nuclear occupations and professional activities (e.g. nuclear medicine, radiation protection, nuclear energy, nuclear waste management), Managers in organisations active in nuclear domains who are responsible for human resource competence development and individuals capable of delivering vocational training relevant to professional roles in nuclear sectors.

The domain of interest of NUCLEATION focuses on vocational training that contributes to the competence development and qualification of human resources in organisations active in nuclear domains.

Vocational training within this scope may be formal or non-formal, developed and implemented internally within nuclear organisations or delivered by specialised professional training providers

Beyond supporting organisational objectives through a more competent workforce, such training also contributes to the personal development of professionals, fostering motivation, commitment, and a culture of lifelong learning.

4.3. Added Value for the European VET Platform

By being integrated into the European VET Platform within the ENEN Hub, NUCLEATION contributes to the rapid delivery of professional vocational training in response to identified needs, the provision of training in both formal and non-formal settings and the development and implementation of training within nuclear organisations or through specialised training providers.

Furthermore, the community provides a framework to analyse the effectiveness of specific VET offers in terms of competence development, exchange information on how training programmes are designed, implemented, and evaluated and benchmark training approaches against best practice methods, processes, and tools.

Through these functions, NUCLEATION strengthens the strategic dimension of the VET Platform by complementing the database of courses with a dynamic, expert-driven community of practice. In this respect, NUCLEATION represents a key element in enhancing the long-term impact and sustainability of the European VET Platform beyond the duration of the ENEN2plus project.

5. Conclusion

The European VET Platform, developed and integrated within the Nuclear-Education Hub under the ENEN2plus project, represents a significant step toward strengthening vocational education and training in the nuclear sector at the European level. By providing a centralised, structured, and user-friendly platform, the Hub facilitates access to education, training, and career opportunities while supporting institutions in promoting and managing their educational offers. The integration of advanced search functionalities, institutional ownership of content, and a secure administrative framework ensures both usability and long-term sustainability.

Therefore, the establishment of the Private Courses section and the integration of the NUCLEATION community reinforce the strategic role of the platform, enabling structured collaboration, competence development, and progressive expansion of the course catalogue. The platform not only addresses current fragmentation in nuclear vocational training but also creates a sustainable and scalable infrastructure that will continue to serve students, professionals, and training providers beyond the duration of the ENEN2plus project, contributing to the development of a skilled and competent nuclear workforce in Europe.

ANNEX 1: WEBSITE OVERVIEW

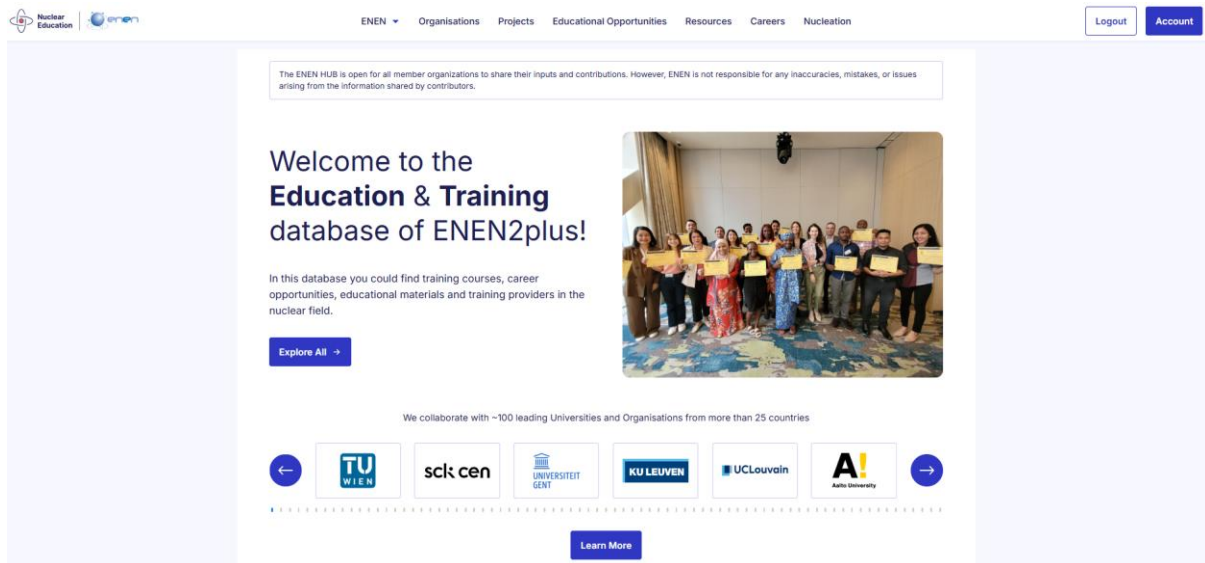


Figure 1: ENEN Nuclear-Education HUB Homepage.

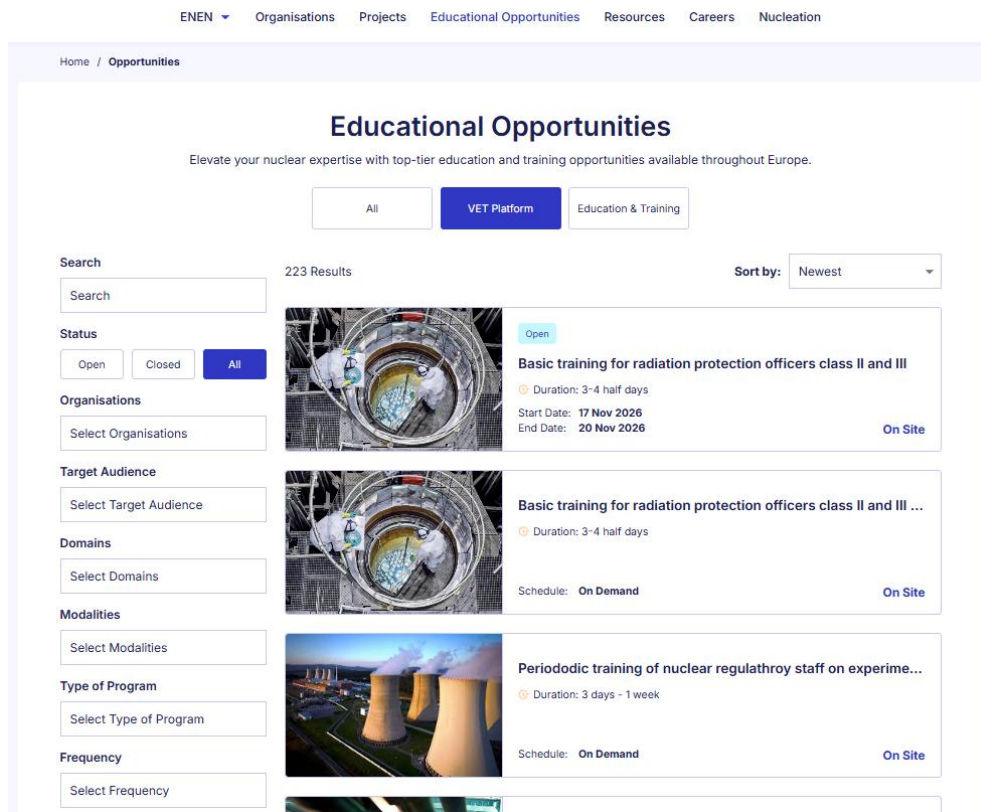


Figure 2: Educational Opportunities Page – VET Platform Filter

Educational Opportunities

Elevate your nuclear expertise with top-tier education and training opportunities available throughout Europe.

All VET Platform Education & Training

Search

Status
Open Closed All

24 Results Sort by: Newest

Training course on radioactive waste management
Duration: 5 days
Schedule: **On Demand** On Site

Advanced manufacturing for the development of materials f...
Duration: 4 days
Start Date: 9 Feb 2026
End Date: 12 Feb 2026
On Site

Thermal hydraulics and safety – International School in Nucl...
Duration: 5 days
Schedule: **On Demand** On Site

Organisations

Target Audience

Domains

Modalities

Type of Program

Frequency

Figure 3: Educational Opportunities Page – E&T Filter

Home / Resources

Resources

Explore the materials and tools for nuclear education and training


Language

 English

Search

1 Result Sort by: Ascending

Display Name	Uploaded	File Type	Actions
List of (nuclear) facilities available for secondary school visits			View



Nuclear Education
by ENEN.eu

Figure 4: Resources Page

Figure 5: Careers Page

Home / Organisations / **Nucleation – VET and E&T**

Organisation

Nucleation – VET and E&T

Training and Education targeting continuous learning for students and professionals

Christian Schönfelder

About this organisation

NUCLEATION was established and organized within the [ENEN2plus](#) project (funded by the European Union under Grant Agreement No. 101061677).

NUCLEATION is a community of practice open to professionals in nuclear domains who wish to discuss any topics, share experience, seek advice, learn from each other, agree on common actions and collaborate,

all relevant to Vocational Education and Training (VET) as well as lifelong learning and continuous professional development.

Details

ID: 643

Website: <https://nuclear-education.eu/>

[Apply for Membership](#)

Christian Schönfelder

christian@schoenfelder.training

Figure 6: NUCLEATION Page

Apply for Membership

Application for Nucleation – VET and E&T Community Membership

The data below will be stored in a small database, to be managed only by the Nucleation – VET and E&T organisation. The data may only be used for contacting community members to exchange information about topics related to the work of the Nucleation – VET and E&T community.

Use for commercial purposes is not allowed.

Title

Mr Mrs Other

Email

Phone

First Name

Last Name

Country

Address

Company

Position

Yes, I agree with **Privacy Policy** and **Terms of Use**

I agree with GDPR **Terms and Conditions**

Submit Application

Figure 7: NUCLEATION Registration Form

Home / Opportunities

Private: Private Educational Opportunities

Elevate your nuclear expertise with top-tier education and training opportunities available throughout Europe.

All VET Platform Education & Training

Search 1374 Results **Sort by:** Newest

Search
Search

Organisations
Select Organisations

Target Audience
Select Target Audience

Domains
Select Domains

Modalities
Select Modalities

Type of Program
Select Type of Program

Frequency
Select Frequency

Qualification
Select Qualification

Private: Lecture Fundamentals of long-term safety analysis
Duration: Not specified
[On Site](#)

Private: Lecture Petrology and Geochemistry of rocks relevant for final disposal
Duration: Not specified
[On Site](#)

Private: Geological storage in Precambrian bedrock
Duration: 3 days - 1 week
[On Site](#)

Figure 8: Private Section – Educational Opportunities