The Training Catalogue for Photon and Neutron Data Services

Training & skills for EOSC

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ExPaNDS and PaNOSC in the PaN EU Project Landscape

Photon (LEAPS)

Neutron (LENS)

PaNOSC and ExPaNDS projects have received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreements 823852 and 857641, respectively.
Our Contribution to Training and Learning in the ExPaNDS and PaNOSC Projects

- The lack of a central platform for PaN Teaching and Learning has been identified by the PaN facilities.
- We evaluated available, state of the art technologies for teaching and data collection platforms.
- We have recognised that a simple, openly accessible catalogue of materials, where anyone can add relevant content for the community, is particularly important.
- We introduced a PaN training catalogue and an e-learning platform:
  - to collect existing material,
  - to announce events and
  - to create/store courses.
- We are re-using successful projects developed by:
  - Elixir (TeSS),
  - SINE2020 e-neutrons and
  - AAI: UmbrellaID/eduTeams.

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PaN Training Portal Architecture

- Overall PaN Training landing page with our three different services:
  - Events Calendar as part of our Catalogue.
  - Training Catalogue based on TeSS developed by ELIXIR and adapted/extended by ExPaNDS: https://pan-training.eu
  - E-learning platform based on Moodle provided by PaNOSC: https://e-learning.pan-training.eu/

PaN Training Portal/Catalogue

Central place to access all ExPaNDS/PaNOSC training materials and our e-learning platform, define training workflows to guide the scientist through the materials, harvest events and other e-learning platform courses from external providers or PaN RIs:

- Website, GitHub, Video (youtube), Training datasets (from Zenodo), Workshop minutes, …

ExPaNDS

pan-training.eu

The central e-learning platform for blended learning courses with PaN content and additional features:

- Jupyter notebook integration,
- Simulations (neutrons, VINYL),
- Virtual lab and Wiki.

E-learning platform:
e-learning.pan-training.eu

Third party materials ...

Third party catalogue ...

Third party events ...

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Training and Learning Platform PaN-training.eu — An Overview

Log in to add events or materials

Support in finding the most suitable system for new content

Latest content from both platforms

Log in to access courses

Latest content from both platforms
Materials, Metadata and the Possibility to Search for Specific Topics & Methods

Materials, events and workflows are all openly accessible.

- Add your own materials
- Subscribe to mail alerts
- Apply complex filters on our metadata
- Search by keyword, scientific method, audience, author, ...
- Add rich metadata to allow a more specific search
- Social media share buttons and like-feature to sort content

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Integration of the E-learning Courses in the PaN Training Catalogue

- Under **materials**, the metadata of all courses available on the E-learning platform is **openly accessible** without registration.
- On the E-learning platform the content is only available after logging in.
- **Automated harvesting** of the metadata from the E-learning system.

The E-learning platform requires authentication.

The metadata of the courses is accessible without log in.

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Automated harvesting of events from different content providers

Rich metadata for on- and offline events with additional metadata and maps

Social media share buttons and like-feature to sort content
Different Materials with Dependencies: Training Workflows

- With training workflows we can show dependencies between materials, datasets and interactive analyses services.
- The workflow are static, but intuitive and easy to create.

Empowering PaN scientists to use the EOSC!

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Training and Learning Platform: The Community

- Our portal depends on content from our community.
- With the **content provider** dashboard we can browse the content from our community members:
  - Facilities and Research Institutes (RIs),
  - Projects, consortia or initiatives,
  - Service providers for the scientists.

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Adding Resources to the Most Appropriate Part of the Platform
Two Projects, Two Systems, One Uniform Training Portal

• The **next step** is the registration as an EOSC resource:
  • pan-training.eu ➔ HZDR
  • e-learning.pan-training.eu ➔ ESS
  • (Registration of the services delayed due to smaller issues with the domain)
• The transition from one system to another is **seamless**, regardless of the starting point.
Further Information

- The PaN training platform pan-training.eu
- PaN e-learning e-learning.pan-training.eu
- PaN e-learning Help docs.pan-training.eu
- ExPaNDS expands.eu, @ExPaNDS_eu
- PaNOSC panosc.eu, @PaNOSC_eu

For enquiries, information, or assistance; contact our support desk at pan-training@hzdr.de

github.com/pan-training/training-catalogue

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Publications:
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