




THE SCIENCE CENTERS IN EDUCATIONAL CONTEXT



learning**together**



Constantly learning,
constantly evolving.



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OID: E10201112

Advanced Institute for Skills Development



COURSE DESCRIPTION

How can Europe capitalize on the increasing investment in science and technology? What are the challenges that schools face nowadays to respond to the need to improve digital and scientific skills?

Science Centers are privileged places for learning. Here, teachers can get and experience a new dimension and perspective, since they can offer a unique and multisensory experience. So, let's take science and education to another level and use our Interactive Science Centers, laboratories and institutions as a new classroom through experimental activities, and learning by exploring.

The visits and field trips that we propose will show participants, in loco, how to explore the activities that those institutions (experimental activities, field trips, nature paths...) provide. Apps (Android and Apple/iOS) will be used as a fundamental teaching and learning resource, helping us develop creativity, teamwork and autonomy when learning.

This training course intends to motivate our participants (school management; teachers & school staff: primary level and secondary level; government & policy makers; recent graduates) to use these **interactive centers as teaching and learning resources**, and as a prime location to develop a European dimension of education.

COURSE INFORMATION

Learning Outcomes

- Increase the value of experimental teaching in sciences;
- Explore the cultural dynamics of each curriculum through experimental & scientific expertise, using the resources that interactive centers have to offer;
- Explore apps & mobile devices in educational contexts;
- Raise awareness for natural heritage preservation by creating science interpretative centers;
- Use interactive working methods for teaching;
- Use interactive science centers as teaching & learning resources;
- Integrate experimental activities, field classes, nature trails, among others, within the curriculum (scientific experiences);
- Protect the assets of the European natural heritage through the creation of interactive science centers;
- Improve ICT skills;
- Reinforce self and cultural awareness as a European citizen;
- Apply and/or adapt different concepts, ideas, and teaching methodologies to the ones practised in participants' home country;
- Facilitate experience and cultural exchanges between European participants and Portuguese teaching personnel, which results in a fruitful international experience;
- Enhance communicative competencies in English and social skills;
- Promote intercultural awareness;
- Learn more about Portugal's and Porto's culture, heritage and society;
- Identify & share good practices that can be implemented at a local level.

DAILY PROGRAM

Our courses also include a daily Coffee Break throughout the week

DAY 1 / 18h30

- Welcome dinner, icebreaking
- Meet & greet, networking - participants and staff
- Week briefing & planning

DAY 2 / 8h30-13h30

- Working Tools (APPS)
- Sparkvideo, Wevideo, Biteable
- Case Study: Parque Natural Litoral Norte
- Team building

DAY 3 / 8h30-13h30

- **Serralves Museum** – Gardens / Teaching Farm - New forms of cultural participation, from sharing interests & knowledge, in transversal approaches that span art, architecture & the environment
- **Water Museum** - The importance of water for life; its different environments; its various uses and its behavior in different situations, connecting scientific & technological issues within Water Resources to ordinary citizens

DAY 4 / 8h30-13h30

- **Center for Living Science - Porto Planetarium** - Educational activities. Movie "The Phantom of the Universe" - explore the exciting story of the discovery of dark matter
- **Botanic Museum of Porto University** - Guided visit to the awarded and most emblematic spaces of the Botanical Garden, framing historical, botanical & literary, all in one place

DAY 5 / 8h30-13h30

- Overview of the role of science centers in STEM education.
- Discussion on pedagogical approaches and learning theories relevant to science centers.
- Analyze case studies from successful science center programs globally.
- Group discussion to derive best practices and lessons learned.
- Focus on inclusivity and engagement strategies for diverse learner groups.

DAY 6 / 8h30-13h30

- Development work
- Work presentations
- Course roundup & review
- Learning outcomes' validation
- Certification Ceremony

OTHER DETAILS

Certification: Certificate of Attendance + description of the previous learning outcomes; Europass validation

(Our courses are eligible to be completely funded by the new Erasmus+ program 2021-2027 - KA1 funds and several other programs)

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Learning Together believes that **well-trained educators** are more motivated and better equipped to shape the future generation! That's why we offer high-quality training to empower education professionals, build new skills, promote cultural understanding, and foster connections with peers **all across Europe**.

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