Skills 4 eosc

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www.skills4eosc.eu

Skills4EOSC Training Courses

2025

Introduction

Skills4EOSC offers a comprehensive **training program** designed to equip researchers, data stewards, and other stakeholders with essential skills for navigating the evolving landscape of **Open Science** and the **European Open Science Cloud (EOSC)**.

Skills4EOSC follows a Train-the-Trainer approach, empowering trainers from Competence Centres, research organisations, and communities. Trainers who complete the programme and demonstrate the required competencies receive certification, ensuring high-quality and consistent training delivery. **They are officially recognised as Master Trainers.**

BY PARTICIPATING IN OUR COURSES, YOU'LL GAIN:

- Capability to support evidence-informed decision-making through Open Science
- Insights into developing and implementing Open Science policies
- Awareness of the role of Open Science in addressing global challenges and future research
- Practical skills in Open Science practices and their implementation
- Knowledge of FAIR principles and their application in various research contexts
- Strategies for effective research data management and governance
- Understanding of Ethical, Legal, and Social Implications (ELSI) in Open Science
- Skills for creating and nurturing Data Steward communities and networks
- Techniques for fostering collaboration among diverse Open Science stakeholders

Important information

- Active participation in interactive activities for synchronous sessions is required to complete the course.
- Completion of self-assessment quizzes or assigned exercises at the end of each module is necessary to progress to the next one.
- Upon completing all modules and passing the final assessment, you will earn the Master Trainer badge and be listed amongst the Skills4EOSC Master Trainers.
- European Digital Credentials will be issued upon completion of the full course.
- Transparency in the use of AI assistance is expected.
- Each course has its own deadline. Be sure to check the registration deadline for the course you would like to attend.
- For detailed information on course structure and schedules, please visit: skills4eosc.eu/participate/skills4eosc-training-courses.

HOW TO REGISTER

FOR SYNCHRONOUS + ASYNCHRONOUS COURSES:
(combining self-paced and live sessions), registration is required via the online registration form at: skills4eosc.eu/participate/skills4eosc-training-courses/skills4eosc-courses-registration-form.

Deadline for registration: one week before the start of the course, with the exception of the first course (*Open Science is the new norm*) whose deadline is 21/03.

FOR ASYNCHRONOUS ONLY COURSES:
(only self-paced sessions) you can register and access the content directly on the Skills4EOSC eLearning platform at: **learning.skills4eosc.eu**.

Skills4EOSC Training Courses / Overview

COURSE AREA	TITLE OF THE COURSE	TYPE	WHEN Click for more details
GENERAL COURSES	IMPLEMENTING FAIR-BY-DESIGN METHODOLOGY	Async	Always available
SCIENCE4POLICY COURSES	OPEN SCIENCE IS THE NEW NORM	Async + Sync	From 26/03 to 4/04
	ELSI AND DATA GOVERNANCE	Async + Sync	From 5/04 to 14/04
	INTRODUCTION TO EVIDENCE-INFORMED DECISION-MAKING	Async + Sync	From 15/04 to 25/04
	OPEN SCIENCE STAKEHOLDERS AND COLLABORATION STRATEGIES	Async + Sync	From 3/05 to 12/05
	EMPOWERING THE FUTURE OF RESEARCH WITH OPEN SCIENCE	Async + Sync	From 13/05 to 23/05
	INTRODUCTION TO EVIDENCE-INFORMED DECISION-MAKING	Async + Sync	From 24/05 to 2/06
	IMPLEMENTING OPEN SCIENCE POLICIES	Async + Sync	From 3/06 to 13/06
OPEN SCIENCE READY INSTITUTIONS	OPEN LICENCES FOR DATA SOFTWARE AND CODE	Async	Always available
	LEARNING PATH FOR ELSI PROFESSIONALS: ELSI PERSPECTIVES IN OPEN SCIENCE	Async	Always available
	LEARNING PATH FOR (DATA) LIBRARIANS: TECHNICAL SKILLS ARE THE BRIDGE TO REPRODUCIBLE RESEARCH	Async	Always available
	TEACHING OPEN SCIENCE AND RESEARCH DATA MANAGEMENT FOR UNDERGRADUATES	Async	Available from April 2025
	SHAPING OPEN SCIENCE CHAMPIONS: A TRAIN-THE-TRAINERS COURSE FOR EDUCATORS OF PHD CANDIDATES	Async + Sync	From 12/05 to 30/05
THEMATIC OPEN SCIENCE	SSH RESEARCHERS AND OS	Async + Sync	From 28/04 to 19/05
	THE RESEARCH COMMUNITY IN SOLID EARTH SCIENCES	Async + Sync	From 12/05 to 23/05
	OPEN SCIENCE FOR EARLY CAREER RESEARCHERS IN CLIMATE CHANGE	Async + Sync	From 8/05 to 21/05
	OPEN SCIENCE SKILLS FOR DIGITAL COLLECTIONS CURATORS	Async + Sync	From 19/05 to 20/05

OPEN SCIENCE FOR EVIDENCE-INFORMED DECISION MAKING AND PUBLIC ADMINISTRATION

Level	Beginner	Type	Async + Sync	Who should attend	Master trainers, Policy Actors (Decision Makers, Civil Servants, Honest Brokers).

Registration and access to the self-paced material will be available 10 days prior to the course. It is important to have studied the material before the participation in the live course. Each course provides a **specialised badge**. Complete all 7 courses of this learning path to receive the "**Open Science and Evidence-Informed Decision Making Instructor**" certification.

Course 1	Open Science is the new norm		
Description	This course introduces the paradigm shift towards open science, exploring its fundamental principles and impact on society. It delves into accountability and transparency and contrasts open science practices with traditional closed science models. Participants will gain a foundational understanding of how open science promotes collaboration and innovation and the basic concepts and societal implications of open science.		
Duration	5-6 hours self-paced + 2 hours live course	Date	from 26/03 to 4/04 (self paced) 4/04 at 10-12 AM CET (live session)

Course 2	ELSI and Data Governance		
Description	This course will cover the legal and ethical frameworks and considerations for implementing OS practices. Additionally, participants will examine the challenges and opportunities for Open Science within the EU regulatory framework, focusing on data governance and legislative strategies for FAIR (Findable, Accessible, Interoperable, Reusable) research.		
Duration	4-5 hours self-paced + 2 hours live course	Date	from 5/04 to 14/04 (self paced) 14/04 at 10-12 AM CET (live session)

Course 3	Introduction to Evidence-informed Decision-Making		
Description	This course bridges the gap between open science and the practice of evidence-informed decision-making. It delves into the role of policy, the integration of evidence in decision-making processes, and the stakeholders involved. Participants will learn about open science outputs and tools that support decision-making, and how to interpret statistical data to derive actionable insights.		
Duration	4-5 hours self-paced + 2 hours live course	Date	from 15/04 to 25/04 (self paced) 25/04 at 10-12 AM CET (live session)

Course 4	**Open Science Stakeholders and Collaboration Strategies**		
Description	This course focuses on identifying and engaging with the diverse stakeholders involved in open science. It explores effective collaboration strategies to foster partnerships among researchers, institutions, policymakers, and the public. Participants will learn how to navigate the complex landscape of open science collaborations to maximise research impact and innovation.		
Duration	4-5 hours self-paced + 2 hours live course	**Date**	from 3/05 to 12/05 (self paced) 12/05 at 10-12 AM CET (live session)
Course 5	**Empowering the Future of Research with Open Science**		
Description	This course explores how open science can shape the future of research and decision-making, emphasising investment, capacity building, and integrating advanced technologies like AI. Participants will learn the importance of investing in open science, developing training programs, and leveraging AI to enhance research practices and support evidence-informed decision-making.		
Duration	4-5 hours self-paced + 2 hours live course	**Date**	from 13/05 to 23/05 (self paced) 23/05 at 10-12 AM CET (live session)
Course 6	**Introduction to Evidence-informed Decision-Making**		
Description	This course explores how open science policies underpin and facilitate the adoption of open science practices. It examines the roles of stakeholders, the challenges and barriers to implementation, and the cultural shifts necessary for successful adoption. Participants will also learn about responsible research assessment and review successful case studies of open science policy implementation.		
Duration	4-5 hours self-paced + 2 hours live course	**Date**	from 24/05 to 2/06 (self paced) 2/06 at 10-12 AM CET (live session)
Course 7	**Implementing Open Science policies**		
Description	This course delves into the practical aspects of developing and implementing open science policies. It covers profiles of key policymakers, essential elements for effective policy development, the integration of open science workflows, and strategies for monitoring and evaluating the impact of these policies.		
Duration	4-5 hours self-paced + 2 hours live course	**Date**	from 3/06 to 13/06 (self paced) 13/06 at 10-12 AM CET (live session)

SHAPING OPEN SCIENCE CHAMPIONS: A TRAIN-THE-TRAINERS COURSE FOR EDUCATORS OF PHD CANDIDATES					
Description	This course invites educators to become mentors guiding PhD candidates towards a more open, transparent, and collaborative research landscape, giving them "a ticket 2 Open Science". Participants will navigate key Open Science stations, including open access publishing, FAIR data principles, research data management, and responsible research and innovation (RRI). Throughout this journey, trainers will not only gain foundational knowledge but also acquire practical teaching strategies to engage doctoral students as future Open Science champions.			**Who should attend**	PhD mentors, Mid-senior career researchers, and/or academic staff responsible for delivering Open Science training to doctoral students.
Level	Beginner	**Type**	Async + Sync	**Duration**	4 hours self-paced a week + 1 hour a week sync
Date 1	from 12/05 to 31/05 (self paced)			**Date 2**	16/05 at 1-2 PM (live session)
Date 3	23/05 at 1-2 PM (live session)			**Date 4**	30/05 at 1-2 PM (live session)

Skills4EOSC Async + Sync Courses / Available on various dates

SSH RESEARCHERS AND OS

Description	The course targets SSH scholars working as active researchers at any career stage, and staff like librarians, editors or research infrastructure professionals supporting the SSH research community. SSH is characterised by a diversity of sub-disciplines and there are distinct challenges in how to manage complex topics such as data management, ethics, and publications. This training will focus specifically on the issues faced by SSH scholars and try to provide a platform and ideas for all participants to confidently deliver training in their own context.			**Who should attend**	Researchers in the Social Sciences and Humanities.
Level	Beginner / Intermediate	**Type**	Async + Sync	**Duration**	12 hours sync + offline work (5 hours a week)
Date 1	28/4 at 10 AM - 1 PM CET (live session)			**Date 2**	5/05 at 10 AM - 1 PM CET (live session)
Date 3	12/05 at 10 AM - 1 PM CET (live session)			**Date 4**	19/05 at 10 AM - 1 PM CET (live session)

THE RESEARCH COMMUNITY IN SOLID EARTH SCIENCES

Description	The program is structured to demonstrate how Open Science and FAIR principles are concretely implemented in the EPOS (European Plate Observing System) portal. Through practical examples and case studies, participants will gain essential skills to understand the importance of Open Science in the context of Earth Sciences, apply FAIR principles in geoscientific data management, effectively use the EPOS portal for research and data sharing, and integrate Open Science practices into their research work.			**Who should attend**	Researchers, PhD students, teachers.
Level	Beginner / Intermediate	**Type**	Async + Sync	**Duration**	4 hours sync + self paced work
Date 1	from 12/05 to 19/05 (self paced) 16/05 at 10-12 AM CET (live session)			**Date 2**	from 19/05 to 23/05 (self paced) 23/05 at 10-12 AM CET (live session)

OPEN SCIENCE FOR EARLY CAREER RESEARCHERS IN CLIMATE CHANGE							
Description	Participants will learn about data lifecycle, research data management, Open Science and FAIR principles, and data management planning. The course introduces major climate science infrastructural initiatives and emphasises the importance of understanding Open Science policies and practices in the climate change domain. It aims to equip junior researchers with the skills needed to conduct transparent, collaborative, and impactful climate research.			**Who should attend**	Researchers in Climate Change.		
Level	Beginner / Intermediate	**Type**	Async + Sync	**Duration**	12 hours sync + self paced work		
Date 1	8/05 at 10.30 AM - 1.30 PM (live session)	**Date 2**	15/05 at 10.30 AM - 1.30 PM (live session)	**Date 3**	21/05 at 2-5 PM (live session)		

OPEN SCIENCE SKILLS FOR DIGITAL COLLECTIONS CURATORS							
Description	This course teaches curators and scientists how to digitise object-based collections and make them openly accessible. Participants learn to apply FAIR principles, use standardised metadata, and create sustainable digital repositories. The training covers from digitisation techniques and data visualisation, emphasising the transformation of physical artefacts into "Open Collections", to ethical and legal aspects of managing digital open collections. This course aims to enhance the accessibility and value of scientific collections for global research, bridging the gap between traditional curatorial practices and modern digital accessibility standards.			**Who should attend**	Curators and scientists in Libraries, Archives and Museums (LAMs), universities and research infrastructures working with object-based digital collections.		
Level	Beginner / Intermediate	**Type**	Async + Sync	**Duration**	4 half days of live sessions (the training consists of four half-day modules) and 3 hours of self-paced assessments		
Date 1	19/05 (live session)			**Date 2**	20/05 (live session)		

IMPLEMENTING FAIR-BY-DESIGN METHODOLOGY

Description	This course focuses on the practical application of the FAIR-by-Design methodology developed by Skills4EOSC. Participants will learn how to design and implement FAIR data practices in their projects.			**Who should attend**	Master Trainers, project managers, data stewards, and researchers involved in project design.
Level	Beginner	**Type**	Async	**Learning Platform**	https://learning.skills4eosc.eu/course/view.php?id=19

OPEN LICENCES FOR DATA SOFTWARE AND CODE

Description	This 2-hour training unit equips trainers with essential skills to teach research output licensing. It covers adapting content to local contexts, applying for licences throughout projects, complying with funder and institutional requirements, and aligning with research discipline and project aims.					**Who should attend**	Data Stewards and data professionals with basic knowledge of rights to research output.
Level	Intermediate	**Type**	Async	**Learning Platform**	First Round https://learning.skills4eosc.eu/course/view.php?id=29		Second Round https://learning.skills4eosc.eu/course/view.php?id=59#section-4

LEARNING PATH FOR ELSI PROFESSIONALS: ELSI PERSPECTIVES IN OPEN SCIENCE

Description	This course introduces legal drivers and motivations behind key regulations like the AI Act and GDPR. Through practical discussions and case studies, it connects legal aspects to researchers' commitments to FAIR principles, reproducibility, and Open Science goals. It examines the implications of laws on research from both ELSI and researcher perspectives, addressing potential frictions and opportunities created by regulations like the AI Act.					**Who should attend**	ELSI professionals and researchers.
Level	Beginner	**Type**	Async	**Learning Platform**	First Round https://learning.skills4eosc.eu/course/view.php?id=48		Second Round https://learning.skills4eosc.eu/course/view.php?id=58

LEARNING PATH FOR (DATA) LIBRARIANS: TECHNICAL SKILLS ARE THE BRIDGE TO REPRODUCIBLE RESEARCH							
Description	This course focuses on technical skills as key enablers of reproducible research. It covers the distinction between reproducibility and replicability, emphasising the crucial role of technical aspects in achieving reproducibility. It explores the importance of responsible research conduct and Open Science principles concerning reproducibility. Participants will reflect on the data librarian's role in supporting reproducible research, considering various disciplinary requirements, issues, and tools. It also provides insights into technological solutions such as programming and data wrangling.				**Who should attend**	Data librarians and data curators.	
Level	Beginner	**Type**	Async	**Learning Platform**	https://learning.skills4eosc.eu/course/view.php?id=47		

TEACHING OPEN SCIENCE AND RESEARCH DATA MANAGEMENT FOR UNDERGRADUATES							
Description	This course is designed to prepare trainers for delivering the online course Introduction to Open Science and Research Data Management to undergraduate students. Trainers will explore the six course modules: Introduction to Open Science, Open Access, Copyright and Licensing, Introduction to Research Data Management, Research Data Management in Practice, and Research Impact and Visibility. By completing the course, trainers will become familiar with both the course content and practicalities.				**Who should attend**	Educators and trainers responsible for teaching undergraduate university students.	
Level	Beginner	**Type**	Async	**Learning Platform**	https://learning.skills4eosc.eu/course/view.php?id=68		

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