The European Interoperability Reference Architecture: a deep dive

Essential Course Information

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Course information	
Course Provider	European Commission
Course Title	**The European Interoperability Reference Architecture: a deep dive**
Course Topic	Background and guidance for the implementation of EIRA©.
Course Type	Online, self-contained, Scorm
Course tags	EIRA©, European Interoperability Reference Architecture, implementation architecture, application of EIF, interoperability schema, metamodel, Digital skills in the public sector, Interoperability, Public Sector Innovation, Innovative Public Services, Interoperable Europe, IOPEU Academy, Interoperable Europe Academy, Technical interoperability
Course summary	EIRA is an architecture content metamodel defining the architectural building blocks (ABBs) needed to build interoperable e-Government systems. The EIRA provides a common terminology that can be used by people working for public administrations in various architecture and system development tasks.
	This course aims at providing an analytical description of the EIRA views focusing on the details of the EIRA© technical view and providing specific concrete examples.
	The course "Introduction to the European Interoperability Reference Architecture" is considered as a prerequisite to follow this course. In this regard a short summary of the EIRA© views presented in the introductory course are being described at high level also in this course.
	This description includes Business roles, objects, processes, requirements, constrains, capabilities, interfaces, functions, representations using the EIRA© common terminology that can be used by people working for public administrations in various architecture and system development tasks.
	This course also provides a specific practical example of a Solution Architecture Template that can be used as a tool for pan European public services, as well as high-level guidance through tools and support that can help implement the EIRA.
	The course organised in a sequential 3 module structure, with a final assessment, and recap of main learning points.
	The first module provides the summary of the introductory course form high level point of view.
	The second module provides detailed analysis of the EIRA Technical point of view.
	The third module provides the concrete example of a Solution Architecture Template for the Catalogue of Services.

	The course will focus on providing specific knowledge, developing skills and understanding through interaction and hands-on experience in an engaging or interactive environment.
Target audience	The target audience will be primarily those with decision-making responsibilities in the area of interoperability application and implementation, and those with responsibility for designing implementation scenarios and architectures. They include: Public policy officers Business analysts Legal advisors Functional analysts Solution Architects
Language	English (and others TBC)
Level	Advanced. The course is addressed to roles who have proven and evidenced knowledge and competencies in the context of Digital Public Services design and interoperability, and who have completed a) the Introductory IOP courses, b) the Alignment of National Interoperability Frameworks to EIF and c) the Introduction to the European Interoperability Reference Architecture. Courses at this level are split in approximately 30-minute courses, providing insight into a specific topic in the area of interoperability. The courses are designed for those who have understood the importance of designing and implementing interoperable solutions within their context, and now require a practical guide to the specifics of implementation in various fields. The course will use the principles of instructional design methodologies based on learner-driven, constructivist approaches, focussing on learning as an active, iterative and problem-based process., with components focussed specifically on developing mastery of identified tasks.
Learning Objectives	Recap EIRA views and viewpoints at high level Be able to describe the Technical Application view components, Be able to describe the Technical Infrastructure view components, Be able to see how EIRA is used in Solution Architecture Templates with specific examples, Demonstrate ability to undertake requirements analysis and problem definition in collaboration with a solution architect, Recognise available in Joinup tools and solutions that can support the implementation of the EIRA.

References	1) EIRA https://joinup.ec.europa.eu/collection/european-interoperability-reference-architecture-eira/about 2) EIRA guidelines for the TOGAF interoperability ADM cycle https://joinup.ec.europa.eu/collection/european-interoperability-reference-architecture-eira/solution/eira-guidelines-togaf-interoperability-adm-cycle 3) Detailed-level Interoperability Requirements Solution Architecture Template (DL SAT) Design Guidelines v1.0.0 https://joinup.ec.europa.eu/collection/european-interoperability-reference-architecture-eira/document/high-level-interoperability-requirements-solution-architecture-template-hl-sat-design-guidelines 4) EIRA Library of Interoperability Specifications (ELIS) https://joinup.ec.europa.eu/collection/common-assessment-method-standards-and-specifications-camss/solution/elis/release/v100-beta 5) Archi The Open Source modelling toolkit for creating ArchiMate models and sketches https://www.archimatetool.com/ 6) EIRA Validator https://joinup.ec.europa.eu/collection/european-interoperability-reference-architecture-eira/about#EIRA%C2%A9%20Validator 7) SAT for CoS https://joinup.ec.europa.eu/collection/european-interoperability-reference-architecture-eira/solution/sat-cos/release/v100