

Linked Data - Ontologies in OWL and SHACL (EN)

Group Training

Training code	CGALDOOSCE
Spoken Language	English
Language Materials	English
Dayparts	2
Price	€800,00 excl. VAT No extra costs.

What is Linked Data - Ontologies in OWL and SHACL

OWL is a powerful language used to define and instantiate web ontologies, allowing for rich and complex descriptions of concepts and relationships. SHACL complements OWL by providing a way to validate RDF graphs against a set of conditions. In some contexts, having only SHACL shapes is seen as sufficient. This training offers a comprehensive exploration of these technologies, covering foundational principles, practical applications, and advanced techniques. Participants will learn how to build ontologies and ensure their integrity through validation processes.

Who should attend Linked Data - Ontologies in OWL and SHACL

This training is suitable for:

- Data Modelers: To model a domain in a graph paradigm, using semantic web technologies.
- Data Scientists: To enhance data structuring and validation capabilities.
- Information Architects: For improved data interoperability and quality assurance.
- Software Engineers: To develop more intelligent and data-aware applications.
- Business Analysts: To better interpret and leverage data for strategic insights.

Prerequisites

Participants should:

- Be familiar with Linked Data and RDF (Resource Description Framework). The 'Introduction Linked Data' training addresses these topics and is ideally suited to follow as a pre-requisite training.
- Bring a laptop that can run Protégé (desktop version) and Jupyter Notebook in a web browser.



Objectives

After this training you will be able to:

- Explain key concepts in OWL and SHACL.
- Design and create ontologies using OWL.
- Validate RDF graphs using SHACL.
- Utilize OWL and SHACL to improve data interoperability.

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