

## Linked Data - Ontologies in OWL and SHACL (EN)

### Group Training

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|--------------------|--------------------------------------|
| Training code      | CGALDOOSCE                           |
| Spoken Language    | English                              |
| Language Materials | English                              |
| Dayparts           | 2                                    |
| Price              | €800,00<br>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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IN/3A-018.18