Web Services – Basics and Architectures («XWS»)

Learn how to use XML Web Services in terms of architecture, fundamentals and communication.

Duration: 2 days
Price: 1'500.–
Course documents: Digicomp courseware

Content

1. **Introduction**
   - What are Web Services?
   - Why Web Services?
   - Web Services Technology
2. **Architecture**
   - Web Architectures
   - Service architectures, SOA
   - Web Services Architectures
3. **Communication protocols**
   - HTTP GET, POST
   - SMTP, MIME
4. **Data formats**
   - XML, XML scheme
   - JSON, JSON scheme
   - Serialization
5. **Transcription**
   - SOAP and XML-RPC
   - SOAP Standard and versions, SOAP Fault
   - REST
   - OData
   - gRPC
6. **Description**
   - Web Services Description Language (WSDL)
   - WSDL Document, Metadata Exchange
   - WS Policies
   - WADL
   - Swagger
7. **Advanced Features**
   - MTOM
   - Addressing and Routing
   - Discovery and Announcement
   - Reliability
8. **Safety and security**
   - Requirements and Standards
   - WS Security, WS Trust, WS SecureConversation
   - SAML, OAuth
9. **Transactions and Processes**
   - Basics
   - Standards
10. **Web Services Implementation**
    - Interoperability
    - Testing
    - Design references

- Experiences
- Practical examples

Key Learnings

This course enables you to understand and assess the possible uses and application areas of Web Services and to plan and analyse their use in your own applications.

Target audience

Decision-makers, project managers, software developers and employees in IT projects, as well as specialists who perform IT interface support functions.

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-software-engineering/programming/web-programming/course-web-services-basics-and-architectures