
Title: **Principles of HA design with AIS for implementers**

Target audience: Technical Managers, System and Application Designers, Implementers

Duration: 4 days, 6-8 hours/day

Description This course provides an overview of creating HA applications using the service APIs defined by the Application Interface Specification (AIS) of the Service Availability Forum (SA Forum). It focuses primarily on the implementation aspects of the application development. Realistic problems will be addressed in an easily understandable form for application implementers.
A deep introduction is given on the services defined by the AIS and lab practices are offered for practicing the things learned. Besides this, implementation best practices and testing methods are also introduced.

Learning objectives At the end of the course, participants will be able to:

- Understand the operation and usage of AIS services
- Implement AIS based applications (components)
- Debug and test AIS compliant applications

Outline

Day 1: Introduction to AIS specifications

1. AIS specifications overview
2. Example areas of application

Day 2: AIS based application development I

1. Deep introduction to AIS specifications through practical examples
2. Hands-on lab

Day 3: AIS based application development II

1. Deep introduction to AIS specifications through practical examples
2. Hands-on lab

Day 4: AIS based system management and testing techniques

1. AIS related system management technologies and their application
2. Best practices for structuring AIS based applications
3. Testing techniques

Day 5: Hands-on lab: Planning and implementing an HA application

Prerequisites To complete this course, you need:

- Knowledge of C language
- Some UML knowledge is beneficial
- Working experience with Linux is required for lab practices