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**Title:** **Principles of HA design with AIS for architects**  
**Target audience:** Technical Managers, System and Application Designers, Implementers  
**Duration:** 2 days, 8 hours/day

**Description** This course provides an overview of the state-of-the art of High Availability (HA) design. It addresses primarily the application know-how related to the scope of Application Interface Specification (AIS) of the Service Availability Forum (SA Forum). Abstract problems will be addressed in a form easy to understand for practicing engineers. An introduction is given on the main services offered by the AIS. Optionally, lab practices are offered for UML based design of AIS based applications.

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

- Design AIS based solutions
- Describe the architecture of an AIS based application
- Carry out quantitative cost/benefit analysis in the terms of availability, overhead, etc.

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**Outline**

**Day 1: HA basics and introduction to AIS specifications**

1. Basics of High Availability
2. Introduction to AIS specifications
3. Application design exercise

**Day 2: AIS based application development and system management**

1. Deeper introduction to AIS specifications through practical examples
2. System management technologies related to AIS
3. Application development and management lab

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**Prerequisites** To complete this course, you need:

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