

Course : ISO 29119, building your test methodology repository

Practical course - 3d - 21h00 - Ref. IMO

Price : 2260 CHF E.T.

This course will enable you to understand the ISO 9001-2008/ISO 29119 compliance process for testing and related processes within an organization. It will enable you to set up an efficient testing organization.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Understanding the normative requirements of ISO 29119
- ✓ Mapping ISO 29119 requirements in the context of professional testing
- ✓ Assess coverage of ISO 25000 criteria and economic feasibility
- ✓ Deploy a test methodology repository

Intended audience

Managers of testing, validation, acceptance, industrialization, MOA, MOE, R&D, testers, quality managers, wishing to formalize testing processes to improve software quality.

Prerequisites

Knowledge of software testing fundamentals. Experience of testing projects desirable.

Certification

Preparation for test process certification.

Practical details

Case study

Implementation of an ISO 29119-compliant test methodology repository as part of a dedicated testing entity.

Teaching methods

Exploring the concepts and requirements of the standard - Application within the framework of a case study.

PARTICIPANTS

Managers of testing, validation, acceptance, industrialization, MOA, MOE, R&D, testers, quality managers, wishing to formalize testing processes to improve software quality.

PREREQUISITES

Knowledge of software testing fundamentals. Experience of testing projects desirable.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

Course schedule

1 Introduction to ISO 29119

- Origin and positioning of ISO 29119.
- Structure, key compliance points.

2 From ISO 29119 requirements to applications

- Basic quality requirements (ISO 9001, CMMI, etc.).
- ISO 29119 scope and requirements. Interfaces.
- Methodology transfer to ISO 29119.

Case study

Organization of transfer to ISO29119.

3 ISO 29119 - Part 1 - Concepts and terminology

- Concepts and terminology.
- Verification and validation testing.
- Test organization, policy and strategy.
- Dynamic test processes. Lifecycle models.
- Quality testing and specifications (ISO 25000).
- Project risk-based approach to testing.
- Non-conformity management.

Case study

Identification of key points for defining the reference system.

4 ISO 29119 - Part 2 - Test processes

- Test organization and planning.
- Test specification.
- Test platform management.
- Test execution, logging.
- Incident reporting.

Case study

Definition of organization, management and testing processes.

5 ISO 29119 - Part 3 - Test documentation

- Test policy, strategy and plans.
- Interim reports.
- Design specification, cases and procedures.
- Specification of test and environment data.
- Diary, incident report. Final report.

Case study

Definition of document templates for Test processes.

TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

6 ISO 29119 - Part 4 - Testing techniques

- Functional design techniques.
- Structural design techniques.
- Other non-functional techniques.
- Coverage measures.
- Impact of choice of techniques.

Case study

Integration of test techniques into the repository.

7 ISO 29119 - Implementing the test methodology repository

- Repository architecture.
- Formalization, verification and acceptance of procedures.
- Team organization and management.
- Repository deployment.
- Application and feedback.
- Identification of areas for improvement.
- Repository maintenance.

Case study

Consolidation of the test methodology repository.