

SECTOR: NUCLEAR

Equipment Qualification

NEQQ



Italia

Aggiungi valore.
Ispira fiducia.

Description of the course

Learn how to qualify your safety-critical equipment, whether it is mechanical or electrical.

The general process of equipment qualification is explained as well as different qualification and testing methods. Various examples will be provided to illustrate the introduced methods. Apply your newly gained knowledge in two practical applications by conducting a systematic failure mode analysis and elaborating a concept on how to best select the test specimen as part of type testing. Furthermore, learn how to qualify commercial grade items for the application in nuclear facilities.

Align the qualification process to the requirements of your equipment and counteract possible problems at an early stage to save time and money.

The training will be in English.

Duration

2 Days / 16 hrs.

Objective of the course

- Learn how to qualify safety-critical equipment
- Understand the general equipment qualification process
- Get to know the different equipment qualification methods

Course Programme

Agenda Day 1

- Welcome & Introduction
- Safety Principles
- Identification of Items Important to Nuclear Safety (ITNS)
- Processes and Methods
- EQ by Analysis

- Lunch break -

- **Practical Application:** Systematic Failure Mode Analysis (FMEA)
- EQ by Operational Experience
- Seismic Qualification

Agenda Day 2

- EQ by Testing
- Environmental Testing
- Special Testing with Respect to LOCA Conditions
- Commercial Grade Dedication

- Lunch break -

- **Practical Application:** Selection of Test Specimen (Type Testing)
- Inspections during Manufacturing and Fabrication
- Conformity Assessment
- Review & Goodbye

- Certificate Awarding Ceremony -

Cod. corso NEQQ_r0

www.tuv.it/akademie - tuv.formazione@tuv.it



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Typical participants

- Employees of manufacturers producing safety-critical nuclear equipment (management, engineers, technical experts)

Pre-requirements (if any)

- none

Handouts and training material

- Handout (pdf-format)
- Photo documentation of flipchart and pin board

Trainer

As an internationally recognized and impartial Inspection Body certified according to DIN EN ISO 17020, Type A, and over 50 years of experience in the nuclear field, TÜV SÜD helps to ensure that all safety and security requirements on safety-critical equipment are fulfilled. From our daily business we know both, the requirements of licensees as well as the challenges for new and established nuclear component and equipment manufacturers that arise throughout the nuclear supply chain. Our experts in the field of equipment qualification have many years of experience and have successfully supported the qualification process of mechanical, electrical and I&C components. In our training courses, these experts turn into trainers and pass their practical experience and expert know-how on to the participants.

Participation certificate*

- Participation certificate