enstti

Experts *for experts*

RADIATION PROTECTION | Course in English

Human and Organizational Factors

Sessions: Once or twice a year

Registration deadlines: 3 months prior to course

Duration: 5 days
Certificate of attendance will be issued to participants who attend the full course.

Price: €2 500 for participants

Code: CO1025

REGISTER NOW

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Online catalogue
www.enstti.eu/training-catalogue

Examination:
Knowledge testing (multiple choice exam) will be performed on the full course content and successful candidates will be issued with a Knowledge Certificate.

Teaching methods:
Lectures, discussions and practical sessions are included.
Working group exercises and technical visits are supervised by experienced TSO experts.

A USB stick containing the course material will be provided.

OBJECTIVES

To provide a detailed overview (concepts and methods) in the field of Human and Organizational Factors (HOF).

TARGET AUDIENCE

This training is intended for:
▪ engineers,
▪ researchers,
▪ other professionals from Nuclear Regulatory Authorities and Technical Support Organisations involved in nuclear safety activities.

PREREQUISITES

Participants are expected to have basic knowledge of nuclear safety activities.

LEARNING OUTCOMES

Participants will be able to:
▪ Estimate the different factors influencing working situations, such as the environment, rules, organization, management or human actions.
▪ Understand, for a given working situation, the differences between the prescribed task and the actual one.
▪ Evaluate the contribution of human action in the global reliability of high risk systems like nuclear industries.
▪ Identify the contribution of HOF studies to nuclear safety at every step of the facility life cycle (design, operation, dismantling).
▪ Understand the HOF methodology to lead an event analysis.
▪ Acquire a global view of the key organizational features of a learning process in high risk systems such as nuclear industries.
▪ Know the conceptual and theoretical basis useful to understand crisis management in a globalized world.

PROGRAM

The five-day training module will cover the following subjects:

- The Überlingen Accident working group
- Introduction to Human and Organizational Factors: key concepts and methods
- From human error to organizational reliability
- Human and organizational factors in design
- Human and organizational factors in operation
- Human and organizational factors in dismantling
- Operating experience feedback and event investigation
- Analysis of an event
- Working groups
- Man-machine interface and control-room supervision
- Human and organizational factors and nuclear assessment
- Human reliability analysis
- Crisis management
- Safety culture