

NPP Basics EPR Overview

This lecture will present the basics of a nuclear power plant, with introduction to safety and radiation protection.

Duration: 2 hours

Language: English

Participants: 10 to 30

Location: classroom



Basics

Prerequisites: None

Your profile

Master 1-2 level student in a partnering university, wishing to acquire a global vision of a Pressurized Water Reactor (PWR).

During the training, you will:

- Get the introduction to nuclear safety and radiation protection
- Discover the safety culture and the safety concepts in NPP
- Discover an example of lack of safety culture (Chernobyl)
- Get the presentation of the plant overview

After the training, you will be able to:

- Explain why safety culture and nuclear safety are so important
- Describe on which two main principles nuclear safety is based
- Describe the safety concept in a PWR
- List the EPR design objectives

Advantages

- Face-to-face training
- Use case presentation

Content

Theoretical module:

- Introduction to nuclear safety and radiation protection

- Safety culture and safety concepts in NPP
- Presentation of the plan overview
- Key points to remember

Use case analysis:

- An example of lack of safety culture (Chernobyl)

Evaluation

- None