

## Power Fuel Assembly for PWR Reactors

The lesson “Fuel Assembly for PWR Reactors” will explain what a Fuel assembly is, why it is needed and how it is manufactured.

Duration: 3h30

Language: English

Participants: 10 to 30

Location: classroom



Basics

Prerequisites: None

### Your profile

Master 1-2 level student in a partnering university, wishing to learn what a Fuel assembly is, why it is needed and how it is manufactured.

### During the training, you will:

- Get the definition on what is a Nuclear Fuel Assembly
- Get the overview on Fuel Assemblies in the Reactor
- Get information on Fuel environment
- Discover main mechanisms occurring during the normal operation
- Understand safety and functional requirements for Fuel design
- Discover Fuel Assembly manufacturing process

### After the training, you will be able to:

- Define what a Nuclear Fuel Assembly is
- Provide description of the Fuel Assemblies in the Reactor
- Describe Fuel Assembly Life Cycle
- Explain Fuel behavior during Reactor operation
- Describe safety and functional requirements
- Explain Fuel manufacturing process

### Advantages

- Face-to-face training

### Content

#### Theoretical module:

- Description of a Fuel Assembly
- Fuel Behavior during reactor operation
- Fuel Assembly Design
- Fuel Assembly Manufacturing
- Conclusions and Perspectives

#### Evaluation

- None