

Sodium technology and loop operation

Code référence : 65B

OBJECTIFS

• Announce sodium characteristics • Define the precautions to be taken when working with sodium as well as the collective and individual means of prevention • Describe the main functions of a sodium loop • Describe and use specific sodium instrumentation • Know the main operation steps for a sodium facility • Describe the particularities of sodium loop components and list the main commissioning and operating phases of a sodium loop • Identify the main operating incidents, their consequences and the associated detection and protection systems • Use sodium loop intervention procedures

PUBLIC

Beginner English speaking engineer who is lead to work on the operation of sodium loops or installations.

PRÉ-REQUIS

No prerequisites required.

CONTENU

• Sodium physical and chemical properties; sodium hazards • Sodium facilities: functional analysis approach; design rules for main loop and utilities • Sodium facilities operation • Sodium Instrumentation • Sodium facilities: technology • Rules and guidelines for sodium facilities interventions • Sodium pollution sources and potential consequences • Sodium quality control including purification • Sodium cleaning • Practical exercises on: start-up operations, filling operations, facilities operations, facilities interventions, sodium fire • Visits of sodium cleaning facilities and sodium test loops when the facilities are available

MÉTHODE

The training includes lectures, contributions focusing on participatory methods, practical exercises and visits (when the facilities are available) Maximum number of trainees: 12.

COLLABORATION

Sodium School (CEA/DEN/DTN/STCP)