

# Electrical distribution system availability and safety

## Critical power

### Operating safety (FMEA method)

#### Ref. **AMCIP**

**Duration: 3 days**

#### Objectives

- Learn electrical installation failure analysis (FMEA) to guarantee operating safety.
- Know what operating safety is in critical situations by identifying electrical incidents.
- Know how to set up, perform and manage FMEA on electrical installations. Identify installation weak points and define a suitable plan. Know how to make the right decisions to guarantee operating safety.

#### Intended audience

Decision-makers, supervisory staff and technicians called upon to implement secure energy methodologies in hospitals. Personnel who take part in preparing electrical installation specifications.

#### Path

##### Prerequisites

Have a good knowledge of electrical distribution or have taken the following course:

**G3** p. C7

##### Level

Mastery

##### Breakdown

- 100% classes

#### Content

##### Introduction to operating safety:

- fundamentals,
- safety parameters and indicators used,
- different steps of FMEA studies.

##### Guide to Preliminary Risk Assessment (PRA):

- how to conduct a preliminary risk assessment,
- definition of undesired events.

##### Guide to FMEA applied to electrical installations:

- summary and implementation of action plans,
- particular points and hints on FMEA.

##### Specific FMEA grid for electrical installations:

- failure mode analysis,
- Common Mode failure analysis.

##### Standards and technical points related to hospitals.

