

# Power Generation Services

## Siemens Power Academy – K-FSLIFE Functional Safety for Power Plants (Module 1)

### Introduction

This course outlines the overall concepts of functional safety (FS) for the power generation industry. An overview of functional safety in process industry is given; the key elements of the IEC61508/511 standards are discussed and the application of functional safety in Siemens automation system, T3000, is covered. Hands-on examples and simulated demonstrations are given to gain practical skills.

### Course Content

All required instructional materials are provided to each student. The following topics are representative of those covered in the course. This course can be bundled with “Plan Specific Functional Safety,” Module 2, to cover the specific customer requirements and plant configuration.

### Functional Safety for Power Plants

- **FS Standards and Concepts** (what functional safety is; why it is required; and how it can be achieved)
- **FS Engineering and Management** (concepts of safety engineering and the management of functional safety in process industry, with a focus on power generation)
- **FS Operation and Maintenance** (what operation and maintenance teams need to do to achieve best practice functionally safe plant)

- **FS in T3000** (principles of functional safety in Siemens’ T3000 system)
- **Hands-on** (practical work on T3000 safety system hardware/software)



### Course Details

**Location:** Siemens Training Office / Customer Site

**Size:** Max 6 Participants

**Duration:** 3 days

#### Contact:

Siemens Energy Pty Ltd  
Controls and Digitalisation

SCD Training Centre  
Email: [ppatraining.au@siemens.com](mailto:ppatraining.au@siemens.com)