Course goal
The course goal is to teach students how to handle a Safeguard system without releasing an unwanted “shut down”. The course is a refreshment course regarding maintenance and repair of AC400 systems.

Learning objectives
Upon completion of this course the participants will be able to:
- Describe functionality and operation of AC400 Series Controllers
- Be able to interact in a live Safeguard System without releasing an unwanted “shut down”
- General use of OnLine Builder for maintenance
- Use the OnLine Builder to signal trace in hardware and software
- Use and understand the status presentation of the system.
- Maintain “live” AC400 systems and replace hardware

Participant profile
This training is targeted to maintenance personnel

Prerequisites
General knowledge of control systems. Earlier experience with AC400 systems is a benefit.

Topics
- General maintenance of a AC400 system
- Handling of a Dual Safeguard 400 series safety system
- Isolation of one node in a Dual Safety System
- MasterVote 3000 output stage
- Commissioning and fault localisation/corrections are carried out during the course.
- Course binder in English. Course language is English.

Course type and methods
This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 50% of the course is hands-on lab activities.

Duration
The duration is 4 days.
# Course description

## A290

Advant Controller 400 and Safeguard 400 Series Maintenance "Brush Up" & Safeguard Handling

## Course outline

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