Plantguard Basic Engineering and Maintenance

Course Description

Course Duration

The duration is 5 days

Course Type

This is an instructor led course with interactive classroom discussions and associated lab exercises.

Approximately 50% of the course is hands–on lab activities

Course Goal

The goal of this course is to learn the general operation and engineering of Plantguard Systems.

Student Profile

This training is targeted to application engineers, programmers and system integrators

Prerequisites and Recommendations

Students shall know the fundamentals of working with Control Systems and have basic knowledge of Windows and Safety Systems.

Course Objectives

Upon completion of this course students will be able to:

- Identify hardware components of a Plantguard system
- Develop projects involving Planguard systems
- Handle the programming and configuration tools
- Recognize and use the basic programming objects
- Perform system Diagnosis
- Apply different Maintenance procedures
- Use the basic Troubleshooting techniques
- Integrate Plantguard systems with 800xA systems

Main Topics

- Safety System Concepts
- Plantguard Engineering
- Plantguard Maintenance

AR104 Plantguard Basic Engineering and Maintenance

Course Outline

Day 1	Day 2	Day 3	Day 4	Day 5
Course Overview Plantguard System Overview Processor Expansion Chasis I/O Modules characteristics Modules hot swap (Smart Slot / Companion Slot)	IEC1131 Toolset programming and configuration tool Power system System Configurator Manager: Module Templates. Threshold interpretation Validators	FTAs Field Interfaces Cable Types Communnication Types Variables for communnication mapping Plantguard Diagnosis Implementation	Power source supervision SOE package properties Process Historian Plantguard Application Backup Flowchart Interpret Modules Leds	Partial Stroke 800xA Connectivity Customer specific applications debate Diagnosis interpretation from DCS Logic state interpretation from DCS Summary Conclusions