A221
Advant Controller 400 and Advant Station 500 OS Maintenance I

Course goal

The goal of this course is to teach maintenance and repairs of a running Advant 410 or Advant 450 Controller with Advant Station 500 Operator Station and OnLine Builder.

Learning objectives

Upon completion of this course the participants will be able to:

- Operate Advant Station 500 Series OS
- Locate faults in installations and trace signals into and out of the Advant Controller
- Describe the meaning of status LED's
- Replace input and output circuit boards
- Describe information contained in status displays on Advant Station 500 Series Operator Stations
- Utilize this information when locating faults

Participant profile

This training is targeted to maintenance technician or a person who want an Advant introduction

Prerequisites

Basic knowledge of electrical functions.

Topics

- The different parts of the system and their interaction
- Use of the manuals and other standard documents
- Advant Controller 400 I/O and the central functions
- Advant Station 500 OS functions
- Database structure
- AMPL programming language
- Use of OnLine Builder to trace signals
- Fault finding methods

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 5 days.

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Course outline

Day 1	Day 2	Day 3	Day 4	Day 5
■ Course overview	■ Review - Q/A session	■ Review - Q/A session	■ Review - Q/A session	■ Review - Q/A session
■ System overview	■ Process Control & Database	■ Cabinet configuration and item designation	■ S400 I/O family	■ Fault Tracing Methods
■ AdvaCommand, User Interface	■ AdvaBuild, AS500 On-line Builder	■ Terminal diagrams	■ S800 I/O family	■ Repairs and maintenance
■ Display selection	■ Fault tracing command MDB	■ Basic Units	■ Master Net	■ Fault Tracing Excercises
■ Process adaptation - Signal path	■ AdvaBuild, AS100 ES On-line builder	■ S100 I/O family	■ System Status	■ Wrap-up, summary
■ AdvaCommand, Manual Control	■ Process Control AMPL	■ Status List	■ AdvaCommand, Event & Alarm List	
■ Operations	■ Fault tracing commands LV, MV, GETAB and GEPCD	■ Backup and Loading into the Advant Controller	■ Fault tracing commands LS, SHTARG and SLTARG	
		■ Central backup	■ Process & Process Model	

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