Course Goal
The goal of this course is to teach the students the basic system engineering methodology of an Advant OCS MOD300 control system and provide them maintenance and troubleshooting strategies.

Course Objectives
Upon completion of this course students will be able to:
- Work with Structure Builder and CCF Objects.
- Design Programs using CCF Objects, TCL and TLL languages.
- Deal with the AC460, Multibus and SC Controllers hardware and handle the I/O configuration (S800, S100 and TRIO).
- Load the controller and work in online mode.
- Setup a DCN network between the Advant nodes and the controllers.
- Deal with Process Displays.
- Setup Alarm and Events, Historian and Trend.
- Work with AdvaCommand Environments.
- Troubleshoot AdvaCommand, AdvaBuild and other components of the MOD300 system.
- Backup and Restore an Advant OCS MOD300 system.

Student Profile
Users who want to get knowledge about the fundamentals of Advant OCS systems.

Prerequisites and Recommendations
Students attending this course should have basic knowledge of plant processes, TCP/IP, HP-UX operation and administration.

Main Topics
- Advant OCS MOD300 System Concept.
- Advant Stations: ES/OS, OS, OS/HS, EH.
- Advant Controllers: AC460, AC410.
- Classic Controllers: SC Controller, B Controller, Multibus.
- DCN: purpose, protocol, physical characteristics, requirements, media types, OMF concept.
- Remote I/Os: characteristics, specifications, interfaces, redundancy, types (S800, S100, TRIO).
- System Services.
- AdvaBuild DBMS.
- AdvaCommand Environment Builder.
- AdvaCommand Display Builder and Alarm & Event handling.
- AdvaCommand Trends.
- AdvaInform History and Reports.
- Backup and Restore.

Course Duration
The duration is 5 days.
## Course Description

**AR102**

Advant OCS MOD300 - Engineering and Troubleshooting

## Course Schedule

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<tr>
<td>Hardware Architecture: Advant Stations, Controllers and Remote I/Os</td>
<td>AdvaBuild DBMS: Structure Builder, Body Project, Database Structure, CCF Templates, Loop Definition, Device Loops</td>
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