Maximize your SCADA Investment

The platform is easily upgraded to bring you the latest security patches and features that have been implemented in the core.
# Table of contents

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>004</td>
<td>Introduction</td>
</tr>
<tr>
<td>005</td>
<td>Schedule and Fees</td>
</tr>
<tr>
<td>006</td>
<td>Course No. CA700 SCADAvantage Operations - 1 day</td>
</tr>
<tr>
<td>007</td>
<td>Course No. CA770 SCADAvantage Basic Administration - 5 days</td>
</tr>
<tr>
<td>008</td>
<td>Course No. CA771 SCADAvantage Advanced Administration Upstream - 5 days</td>
</tr>
<tr>
<td>009</td>
<td>Course No. 772 SCADAvantage Advanced Administration Midstream - 5 days</td>
</tr>
</tbody>
</table>
Introduction

The SCADA\text{vant}age training guide is intended for SCADA\text{vant}age users, configurators and ABB staff. Outlines are offered as a guide of topics to be covered but they can be altered if participants have a specific focus area.

This guide contains an overview of the standard SCADA\text{vant}age training courses along with course descriptions, attendance recommendations and topics covered in each course.

ABB can arrange on-site training and custom training courses throughout the year if required. Please contact the SCADA\text{vant}age group for details.

\textbf{Attendance}
A maximum of 8 attendees are allowed in each course.

\textbf{Cancellation Policy}
Registrants cancelling less than two weeks in advance of the course are entitled to a full refund minus a $200 administration fee.

Registrants cancelling less than one week in advance of the course will be charged 100\% of the course fee.

ABB reserves the right to either cancel or postpone the scheduled courses if the number of registrants is less than four. Students will be notified of course confirmation or cancellation by email two weeks in advance.

\textbf{Course fee}
Course fee includes refreshments and lunches for all registrants during the training course but does not include hotels and travelling expenses for any registrants.
Training will be offered based on the following schedule of courses in Calgary, Canada or at the customer location. The minimum attendance is 4 people and the maximum attendance is 8 people per course. (If the course is at a customer location, all travel and living expenses for the instructor need to be covered by the company being given the course).

Courses in Calgary are offered at the ABB Corporate Centre, 110, 2 Smed Lane SE, Calgary, Alberta, Canada

Course Schedule

<table>
<thead>
<tr>
<th>Course</th>
<th>Dates</th>
<th>Course Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA700 - SCADAvantage Operations</td>
<td>Upon Request</td>
<td>$700 USD</td>
</tr>
<tr>
<td>CA770 - SCADAvantage Basic Administration</td>
<td>SPRING: April 23-27</td>
<td>$3,750 USD</td>
</tr>
<tr>
<td></td>
<td>FALL: October 15-19</td>
<td></td>
</tr>
<tr>
<td>CA771 - SCADAvantage Advanced Administration Upstream</td>
<td>SPRING: April 30- May 4</td>
<td>$3,750 USD</td>
</tr>
<tr>
<td></td>
<td>FALL: October 22-26</td>
<td></td>
</tr>
<tr>
<td>CA772 - SCADAvantage Advanced Administration Midstream</td>
<td>SPRING: May 7-11</td>
<td>$3,750 USD</td>
</tr>
<tr>
<td></td>
<td>FALL: October 29- November 2</td>
<td></td>
</tr>
</tbody>
</table>

Contact the SCADAvantage group at SCADAvantage.info@ca.abb.com for any application discounts
Course No. CA700
SCADA Advantage Operations - 1 day

Course Overview
This course will deal with the SCADA Advantage concepts and use of the Human Machine Interface (HMI) SCADA Advantage client
By the end of this course the user will be able to navigate the HMI and utilize all the SCADA Advantage client features for reporting and system monitoring

Course Outline
- Introduction
- Starting SCADA Advantage
- SCADA Advantage runtime environment
- SCADA Advantage functions

Course Prerequisites
Experience with Microsoft operating system

Course Materials
Computer hardware will be provided. We will be using our demo system and performing normal operation tasks.

Course Timing
8:30 am to 4:00 pm
Course No. CA770
SCADAvantage Basic Administration - 5 days

Course Overview
This five-day course will introduce the user to SCADAvantage’s architecture and capabilities. SCADAvantage functionality will be covered including installation, system configuration, communication, system security, I/O maintenance and HMI basics. By the end of this course the user will be able to install, configure, troubleshoot and maintain the SCADAvantage System. The user will also gain knowledge of SCADAvantage front-end design and usage.

Course Outline
SCADAvantage Server
- Installation
- Licensing
Basic Configuration & Tools
- SCADAvantage explorer overview
- Security
- Communication configuration
- Analog, digital, software point and calculation point configuration
- Alarms, events and summary tables
- Archiving
- Reporting tool
- Production data history
- Business object template
SCADAvantage Client
- ODBC setup
- Engineering workstation software
- Display building overview
- HMI installation
Maintenance
- System files structure
- Backup/restore
- Applying patches

Who should attend?
Control Room Administrators and System Administrators who require a working knowledge of SCADAvantage structure, HMI capabilities and system administration and maintenance.

Course Prerequisites
Experience with Microsoft operating system and basic knowledge of RTU functionality.

Course Materials
The fee includes computer hardware and documentation during the course.

Course Timing
8:30 am to 4:00 pm
Course No. CA771
SCADA Advantage Advanced Administration
Upstream - 5 days

Course Overview
This five day course is designed to educate the administrator in the more advanced Upstream related features of SCADA Advantage. The SCADA Advantage features that will be covered are listed below.

By the end of this course the user will be able to design and implement a basic SCADA Advantage client and server for Upstream business.

Course Outline
Quick Review
SCADA Advantage Server
• Installation
• Apply Patch
• Restoring
• History Resizing
• Upgrade
Redundancy setup
Replication
Alarm management
Upstream applications
Business object template
Advance HMI building
Troubleshooting tools

Who should attend?
Upstream System Administrators wanting to maximize the benefits of their SCADA Advantage systems.

Course Prerequisites
• Experience with Microsoft operating system
• Experience with Microsoft Visual Studio .NET
• CA 770 SCADA Advantage Basic Administration
• Experience with RTUs/EFMs
• Experience with Microsoft Excel
• Experience with relational databases and SQL

Course Materials
The fee includes hardware and documentation during the course

Course Timing
8:30 am to 4:00 pm
Course No. CA772
SCADAvantage Advanced Administration
Midstream - 5 days

Course Overview
This five day course is designed to educate the user in the more advanced Midstream related features of SCADAvantage. Features that will be covered are listed below.

By the end of this course the user will be able to design and implement a basic SCADAvantage client and server for Midstream business.

Course Outline
Quick Review
SCADAvantage Server
- Installation
- Apply Patch
- Restoring
- History Resizing
- Upgrade
Redundancy setup
Replication
Alarm management
Disaster Recovery
Midstream Applications
Business object template
Advance HMI building
Troubleshooting tools

Who should attend?
Midstream System Administrators wanting to maximize the benefits of their SCADAvantage systems.

Course Prerequisites
- Experience with Microsoft operating system
- Experience with Microsoft Visual Studio .NET
- CA 770 SCADAvantage Basic Administration
- Experience with RTUs/EFMs
- Experience with Microsoft Excel
- Experience with relational databases and SQL

Course Materials
The fee includes computer hardware and documentation

Course Timing
8:30 am to 4:00 pm
Contact Us

ABB Inc.
Oil and Gas
2 Smed Lane SE
Calgary, AB T2C 4T5
Email: SCADAvantage.info@abb.com
www.abb.com/oilandgas