The DC Products Systems Integrator training program provides participants comprehensive training on the configuration and use of ABB DC drives with a specific focus on our Industrial Drives products. This curriculum combines both web based learning modules and instructor led classroom training to maximize benefits to participants.

These schools are held at the ABB New Berlin, Wisconsin Training Center. Schools are subject to certain limitations (i.e. pre-requisites, minimum class size, equipment availability, etc.). Access www.abb-drives.com or contact your local ABB Sales Representative for more details.

Enrollment is limited. To ensure timely processing of your enrollment, we recommend that you enroll at least 30 days prior to the class scheduled date.

Course Duration
The duration is 5 days for all students. The course includes 1.5 days of application specific training where students are able to choose an application “track”.

Course Type
The course utilizes both web-based and instructor-led training with application exercises and hands-on lab activities to accomplish learning objectives.

Course Goals
Provide attendees the necessary information, tools, and training to be able to select, configure, and apply ABB Low Voltage Drives in areas of their application and industry expertise. In addition participants will attain understanding how best to leverage the broad range of resources and tools available from ABB.

Student Profile
This training is for authorized ABB Low Voltage Drives System Integrator personnel with specific responsibility for system design, configuration, integration, and commissioning using DC Low Voltage Drives.

Prerequisites and Recommendations
Students should have:
- An understanding of industrial applications (DC Drives)
- Basic knowledge of how to design and integrate drive systems
- Completed required web based training modules and pre-tests

A Lap Top PC (Windows-based) should be brought to class preferably with Drives Window loaded. Additional PC Software may be provided.

Course Objectives
Upon successful completion of this course and post-course skills evaluation, students will:
- Have a general understanding of ABB’s broad Low Voltage DC Drives Product Offering
- Be able to design and start up systems that utilize ABB DC Industrial Drives Products
- Understand how to size peripheral components and design a DC drive system
- Be authorized for use of ABB DC Industrial Drives application software application modules they have completed training on
- Gain working knowledge of how to utilize communications capabilities of ABB DC Industrial Drives including a general knowledge base in PLC/drive communications (Ethernet, DeviceNet and other field buses)

Course General Schedule

<table>
<thead>
<tr>
<th>Day 1</th>
<th>Day 2</th>
<th>Day 3</th>
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<tbody>
<tr>
<td>Doing Business with ABB Web Tools and Resources Overview of DC Drive and Motor Basics Introduction to ABB DC Drive Capabilities DCS800 Product Overview</td>
<td>DCS800 Training, Capabilities Definition, Labs</td>
<td>LV Drives Application Design Considerations Certified Start Up ABB Low Voltage Drives Competitive Capabilities Drive Communications and Software Tools Introduction to CoDeSys</td>
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<tr>
<td>Day 4</td>
<td>Day 5</td>
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<tr>
<td>CoDeSys Software Training Application Training Students choose one of the following: - Winder - Crane &amp; Hoist</td>
<td>Application Training Students continue the track they started the previous day</td>
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