Course Type and Description
This is a classroom course with hands-on lab activities supported by an instructor.

The course contains theoretical presentations and hands-on exercises with ACS800N-87 Liquid cooled Wind Turbine Drive unit.

Course Duration
The course duration is 2 days.

Student Profile
This course is intended for electricians, technicians, and engineers, who install, operate and service ACS800N-87LC Wind Turbine drives.

Course Goal
The goal of this course is to teach students to start-up, adjust, operate, maintain, troubleshoot and repair ACS800N-87LC Wind Turbine drives.

Course Objective
Upon completion of this course, students will be able to:

- Commission and tune ACS800N-87LC drives according to manual instructions
- Use the fault tracing methods
- Replace the faulty parts and units
- Operate and maintain ACS800N-87LC drives

Main Topics
- Reading and interpreting circuit diagrams
- Installation procedure
- Locating and identifying terminals, boards and other components
- Converter commissioning
- Changing the setting
- Fault indications and maintenance
- DriveWindow commissioning and maintenance

Prerequisites
Prior to attending this course, students should have
Basic knowledge of electronics
- Experience in using PCs in the Windows environment
<table>
<thead>
<tr>
<th>Time</th>
<th>Day 1</th>
<th>Time</th>
<th>Day 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Introduction to the Course</td>
<td>08:30</td>
<td>Maintenance</td>
</tr>
<tr>
<td>09:15</td>
<td>System Presentation</td>
<td>09:00</td>
<td>Fault Tracing</td>
</tr>
<tr>
<td>10:15</td>
<td>Break</td>
<td>10:00</td>
<td>Break</td>
</tr>
<tr>
<td>10:30</td>
<td>Installation</td>
<td>10:15</td>
<td>Repair</td>
</tr>
<tr>
<td>11:00</td>
<td>DriveWindow Tool</td>
<td>11:00</td>
<td>Inverter Unit and Module Exercises</td>
</tr>
<tr>
<td>11:30</td>
<td>DriveWindow Exercises</td>
<td>11:45</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:00</td>
<td>Lunch</td>
<td>12:30</td>
<td>Inverter Module Exercise</td>
</tr>
<tr>
<td>12:30</td>
<td>Lunch</td>
<td>14:00</td>
<td>Break</td>
</tr>
<tr>
<td>13:00</td>
<td>DriveWindow Exercise</td>
<td>14:15</td>
<td>Module Installation Back to the Cabinet</td>
</tr>
<tr>
<td>14:15</td>
<td>Break</td>
<td>15:00</td>
<td>Reading Circuit Diagrams</td>
</tr>
<tr>
<td>14:30</td>
<td>Commissioning</td>
<td>16:00</td>
<td>End of the Course</td>
</tr>
<tr>
<td>16:00</td>
<td>End of the Day</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Street address**
ABB Oy
Training Center
Strömbergintie 1 Aa
00380 Helsinki, Finland

**Mailing address**
ABB Oy
Training Center
P.O. Box 116
00381 Helsinki, Finland

**Low voltage drives training**
ABB University Finland, Helsinki Training Center
helsinki.abbuniversity@fi.abb.com
www.abb.com/abbuniversity