Course description

G1635
ACS800 LC multidrives for Marine applications, Operation and maintenance

Course type
This is a class room course with hands-on exercises supported by an instructor.

Course description
The course contains lectures, hands-on exercises and fault tracing with ACS800LC units. Please see the accompanying figure of possible learning paths.

Prerequisites
Prior to attending this course, students should have:
- Basic knowledge of electronics
- Experience in using PCs in the Windows environment

Course duration
The course duration is 2.5 days.

Student profile
This course is intended for electricians, technicians, and engineers, who install, operate and service ACS800 liquid cooled multidrives.

Course goal
The goal of this course is to teach students to start-up, adjust, operate, maintain and troubleshoot ACS800 liquid cooled multidrives.

Course objectives
Upon completion of this course, students will be able to:
- Commission and tune ACS800 multidrives
- Exchange the modules
- Operate and maintain ACS800 liquid cooled multidrives

Main Topics
- Construction of drive-, supply and cooling units
- Control panel functions
- Locating and identifying terminals, boards and other components
- Fault diagnostics
- DriveWindow commissioning and maintenance tool operations
- Cooling methods of drive- and supply units
- Functionality of the cooling unit
- Installation of the cooling unit
- Start-up of the cooling unit
- Replacement of the modules

Low voltage drives training
ABB University Finland, Helsinki Training Center
Helsinki.abbuniversity@fi.abb.com
www.abb.com/abbuniversity
# Course agenda

**G1635**  
ACS800 LC multidrives for Marine applications, Operation and maintenance

## Day 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00</td>
<td>Introduction of the course</td>
</tr>
<tr>
<td>9.15</td>
<td>System description</td>
</tr>
<tr>
<td>10.15</td>
<td>Break</td>
</tr>
<tr>
<td>10.30</td>
<td>Control panel functions and start-up procedure</td>
</tr>
<tr>
<td>11.15</td>
<td>Start-up exercises with the panel</td>
</tr>
<tr>
<td>12.00</td>
<td>Lunch</td>
</tr>
<tr>
<td>13.00</td>
<td>DriveWindow program</td>
</tr>
<tr>
<td>13.45</td>
<td>DriveWindow exercises</td>
</tr>
<tr>
<td>14.15</td>
<td>Break</td>
</tr>
<tr>
<td>14.30</td>
<td>Exercises continue</td>
</tr>
<tr>
<td>16.00</td>
<td>End of the day</td>
</tr>
</tbody>
</table>

## Day 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.30</td>
<td>Inverter module replacement exercise</td>
</tr>
<tr>
<td>10.00</td>
<td>Break</td>
</tr>
<tr>
<td>10.15</td>
<td>Cooling unit start-up exercise</td>
</tr>
<tr>
<td>12.00</td>
<td>Lunch</td>
</tr>
<tr>
<td>13.00</td>
<td>End of the training</td>
</tr>
</tbody>
</table>
**Learning Path**

**ACS800 drives**

**Learning path**

Would you like to take a course via the Internet?

- **Yes**
  - **G152e** 1-2 days*  
    - ACS800 Single Drive Fundamentals Internet course
  - **Yes**
    - **G152A** 1 days
      - ACS800 Single Drive Fundamentals
  - **No**
    - **G152B** 2 days
      - ACS800 Single Drive Fundamentals

- **No**

**Do you have knowledge of ACS600 single drives?**

- **Yes**
  - **G163e** 1-2 days*  
    - ACS800 liquid-cooled drives internet course
  - **Yes**
    - **G163A** 1 day
      - ACS800 liquid-cooled drives
  - **No**

- **No**

**Would you like to take a course via the Internet?**

- **Yes**
  - **G160e** 1-2 days*  
    - ACS800 Multidrive Fundamentals Internet Course
  - **Yes**
    - **G160A** 2.5 days
      - ACS800 Multidrive Operation and Maintenance
  - **No**

- **No**

---

* The duration of the Internet courses depends on personal professional background and study pace