Course description

G171
ACS800 Intelligent Pump Control (IPC), operation and programming

Course Duration
The course duration is 2 days.

Course type
Classroom course

Course Goal
The goal of this course is to teach students to calculate energy saving of a pump applications, read pump curves, program and modify a multi pump applications.

Student Profile
This course is intended for electricians, technicians, and engineers, who commission, install, operate and service ACS800 multi pump systems.

Prerequisites
- Either course G152 or G156 (or equivalent knowledge). For course names and durations, please refer to the accompanying figures of learning paths.

Description
This course belongs to a learning path that may utilize blended learning. Please see the accompanying figure for possible learning paths.

Course Objectives
Upon completion of this course, students will be able to:
- Calculate energy saving in pump applications
- Program and modify different multi pump applications

Main Topics
- Pump theory and curves
- Energy saving and PumpSave calculator
- Multi pump link configuration
- Multi pump control
- Level control
- Additional features
# Course agenda

## G171

## ACS800 Intelligent Pump Control (IPC), operation and programming

### Day 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Course Information</td>
</tr>
<tr>
<td>08:35</td>
<td>Product Overview</td>
</tr>
<tr>
<td>09:30</td>
<td>Coffee break</td>
</tr>
<tr>
<td>09:45</td>
<td>Pump curves and energy saving</td>
</tr>
<tr>
<td>10:45</td>
<td>Exercise A1: PumpSave calculator</td>
</tr>
<tr>
<td>12:00</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:00</td>
<td>Intelligent Pump Control and Communication</td>
</tr>
<tr>
<td>13:30</td>
<td>Multi pump control</td>
</tr>
<tr>
<td>14:15</td>
<td>Coffee break</td>
</tr>
<tr>
<td>14:30</td>
<td>Exercise A2 - A4: Hardware configuration and Multi pump control</td>
</tr>
<tr>
<td>16:00</td>
<td>End of the day</td>
</tr>
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</table>

### Day 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Exercise 2 continue</td>
</tr>
<tr>
<td>09:30</td>
<td>Coffee break</td>
</tr>
<tr>
<td>09:45</td>
<td>Level control and common features</td>
</tr>
<tr>
<td>10:45</td>
<td>Exercise A5 - A6 : Level control and Anti Jam Function</td>
</tr>
<tr>
<td>12:00</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:00</td>
<td>Flow calculation</td>
</tr>
<tr>
<td>13:30</td>
<td>Exercise A7: Flow Calculation</td>
</tr>
<tr>
<td>14:15</td>
<td>Coffee break</td>
</tr>
<tr>
<td>14:30</td>
<td>Additional features: Sleep boost, priority Control</td>
</tr>
<tr>
<td>16:00</td>
<td>End of the course</td>
</tr>
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</table>
Learning Paths
ACS800 drives

Learning paths

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

G152e 1-2 days
ACS800 Single Drive Fundamentals Internet course

No

Do you have knowledge of ACS600 single drives?
Yes

G152A 1 day
ACS800 Single Drive Fundamentals

No

G152B 2 days
ACS800 Single Drive Fundamentals

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

G163e 1-2 days
ACS800 liquid-cooled drives Internet course

No

G163A 1 day
ACS800 liquid-cooled drives

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

G160e 1-2 days
ACS800 Multidrive Fundamentals Internet Course

No

G161 2.5 days
ACS800 Multidrive Operation and Maintenance

G160 1.5 days
ACS800 Multidrive Start-Up & Service Hands-On Training

G156 1.5 days
ACS800-07,-17,-37 Single Drive Start-Up & Service Hands-On Training

G152A 1 days
ACS800 Single Drive Fundamentals

G152B 2 days
ACS800 Single Drive Fundamentals

G158 2 days
ACS800 Drives DriveAP Programming

G170 2 days
ACS800 Drives Motion Control

G171 2 days
ACS800 Drives Intelligent Pump Control

G172 2.5 days
ACS800 Drives Winder/Inline Control

G173 2 days
ACS800 Drives Template Control

G174 2 days
ACS800 Drives PCP/ESP & Rod Pump Control

G175 2 days
ACS800 Drives Crane Control Program (+N697)

G176 2 days
ACS800 Drives Winch Control Program (+N698)

G162 2.5 days
ACS800 Multidrive Control Section AC800M Operation and Maintenance

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