Course Description

G174
ACS800 single drive PCP/ESP and Rod pump control, 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 known basics of Artificial Lifting pump applications, program and modify the ACS800 PCP/ESP and Rod pump drive applications.

Student Profile
This course is intended for electricians, technicians, and engineers, who commission, install, operate and service ACS800 PCP/ESP and Rod pump control.

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:
- Describe basics of the Artificial Lifting pump systems
- Program and modify different PCP/ESP and Rod pump control applications

Main Topics
- Artificial Lifting pump systems
- ACS800 PCP/ESP and Rod pump control overview
- Rod pump firmware features and benefits
- PCP/ESP firmware features and benefits
- Commissioning and Optimizing
## Course agenda

### G174

ACS800 single drive PCP/ESP and Rod pump control, operation and programming

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<thead>
<tr>
<th><strong>Day 1</strong></th>
<th><strong>Day 2</strong></th>
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<tr>
<td>09:00</td>
<td>08:30</td>
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<tr>
<td>Course Information</td>
<td>ACS 800 PCP/ESP sw, product overview</td>
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<tr>
<td>09:05</td>
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<tr>
<td>Basics of the Artificial Lift Systems and ACS800 sw solutions</td>
<td>ACS 800 PCP/ESP sw, features and Functionality</td>
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<td>10:00</td>
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<td>Coffee break</td>
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<td>10:15</td>
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<tr>
<td>ACS 800 Rod pump sw, product overview</td>
<td>ACS 800 PCP/ESP sw, features and Functionality</td>
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<td>10:45</td>
<td>11:00</td>
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<tr>
<td>ACS 800 Rod pump sw, features and Functionality</td>
<td>ACS 800 PCP/ESP sw, exercises</td>
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<td>12:00</td>
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<td>Lunch</td>
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<td>13:00</td>
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<tr>
<td>ACS 800 Rod pump sw, exercises</td>
<td>ACS 800 PCP/ESP sw, exercises continued</td>
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<td>14:00</td>
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<td>Coffee break</td>
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<td>14:30</td>
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<tr>
<td>ACS 800 Rod pump sw, exercises continued</td>
<td>ACS 800 PCP/ESP sw, fault tracing</td>
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<td>15:30</td>
<td>15:00</td>
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<tr>
<td>ACS 800 Rod pump sw, fault tracing</td>
<td>Discussions &amp; feedback</td>
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<td>16:00</td>
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<td>End of the day</td>
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**Low voltage drives training**

ABB University Finland, Helsinki Training Center
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Learning Paths

ACS800 drives

Learning paths

Would you like to take a course via the Internet?

Yes

1. G152e 1-2 days* ACS800 Single Drive Fundamentals Internet course

Do you have knowledge of ACS600 single drives?

Yes

2. G152A 1 day ACS800 Single Drive Fundamentals

No

3. G152B 2 days ACS800 Single Drive Fundamentals

Would you like to take a course via the Internet?

Yes

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

5. G163A 1 day ACS800 liquid-cooled drives

No

6. G161 2.5 days ACS800 Multidrive Operation and Maintenance

Would you like to take a course via the Internet?

Yes

7. G160e 1-2 days* ACS800 Multidrive Fundamentals Internet Course

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

No

9. G158 2 days ACS800 Drives DriveAP Programming

10. G152 2 days ACS800-01,-02,-04,-11 Single Drive Start-Up & Service Hands-On Training

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

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

13. G162 2.5 days ACS800 Multidrive Control Section AC800M Operation and Maintenance

14. G161 2.5 days ACS800 Multidrive Operation and Maintenance

15. G158 2 days ACS800 Drives DriveAP Programming

16. G152 2 days ACS800 Drives Motion Control

17. G156 1.5 days ACS800 Drives Intelligent Pump Control

18. G158 2 days ACS800 Drives Hand-On Training

19. G158 2 days ACS800 Drives Hands-On Training

20. G158 2 days ACS800 Drives Hands-On Training

21. G158 2 days ACS800 Drives Hands-On Training

22. G158 2 days ACS800 Drives Hands-On Training

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