Course type and description

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

Prerequisites

- Knowledge of a specific paper machine
- Basic knowledge of electronics
- Experience in using a Windows PC

Course duration

The course duration is 2 days.

Student profile

This course is intended for electricians, technicians, and engineers who maintain and service paper machine electronics.

Course goal

The goal of this course is to learn how to change main components of ACS880 drives, AC800M controllers and Operator Panels in the onsite environment.

Course objectives

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

- Maintain PMC800 systems
- Locate and replace faulty components

Main topics

- Delivered PMC800 system configuration
- System documentation
- ACS880 multidrive
- Hardware and software
- Tool programs
- Replacing modules
- AC800M (Application Program Controller)
- Control Builder configuration tool
- Replacing the Operator Panel
- Troubleshooting within the PMC800 system

Low voltage drives training

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Power and productivity for a better world™

### Course agenda

**H162D – PMC800**  
**Electrical Maintenance**

#### Day 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Introduction of the course</td>
</tr>
<tr>
<td>08:45</td>
<td>System presentation</td>
</tr>
<tr>
<td>09:45</td>
<td>Break</td>
</tr>
<tr>
<td>10:00</td>
<td>PMC800 HW documentation</td>
</tr>
</tbody>
</table>
| 11:00 | Use of Drive composer  
- Introduction to the PC-tool  
- Exercises |
| 12:00 | Lunch |
| 13:00 | Use and maintenance of the control panel  
- Operating and SW-loading  
- Exercises |
| 13:45 | Break |
| 14:00 | Plant Explorer and Control Builder Professional  
- Introduction to the PC-tool  
- Opening, loading, backup and restore  
- Exercises |
| 16:00 | |

#### Day 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.30</td>
<td>Drive control properties</td>
</tr>
<tr>
<td>09.15</td>
<td>PMC800 control functions</td>
</tr>
<tr>
<td>10.00</td>
<td>Break</td>
</tr>
<tr>
<td>10.15</td>
<td>Speed reference chain</td>
</tr>
<tr>
<td>10.45</td>
<td>Drive Control Concept</td>
</tr>
<tr>
<td>11.15</td>
<td>SW configuration</td>
</tr>
<tr>
<td>12.00</td>
<td>Lunch</td>
</tr>
</tbody>
</table>
| 13.00 | SW structure and measurements with Control Builder  
- Exercises |
| 14.00 | Break |
| 14.15 | Communication  
- Principles and settings |
| 14.30 | PMC800 Datalogger |
| 14.45 | Maintenance  
- Safety  
- Maintenance intervals  
- Module replacements |
| 16.00 | |