Welcome to your QMS Training Center!

Course Offering
ABB University training programs enable pulp and paper manufacturers to optimize resource performance.

ABB University P&P training programs give your personnel the necessary skills to perform their duties quickly, safely, and efficiently. Even your engineering experts can learn more through advanced training or brush up on existing skills through individualized coaching. ABB University allows students to get the hands-on training and practice they need for:

- Quality Control System (QCS)
- Web Imaging System (WIS)
- Distributed Controls System – System 800xA
- Paper Machine Drives
- Advanced Process Controls
- Process Analytics, and more

Scheduled courses
Enrollments
You are able to enroll for the courses via our web pages or contact us by email or phone (see contact information on the last page). Please enroll as early as possible since the number of participants per course is limited. We accept the enrollments in the order in which they arrive. An enrollment announcement confirms that we have reserved a place for you. We will inform you by email or phone if there are no vacant places for the applied course. Please note that some courses may have prerequisites. You are able to check this in the course description in the Course Locator.

You will have to send us an order at least four weeks before session starts. Without any order before session starts it will not be possible for you to attend the course.

Confirmation and course program
Confirmation of the course and the course information will be sent approx. two weeks before the start of the course, including the course program and the course times.

Coffee and lunch are included in the course fee. A course may be cancelled due to low enrollment (less than five), of which Training Center informs two weeks before the start of the course.

Please note that a participant who fails to show up for a course without notice to the Training Center is invoiced the full course fee.

Course prices
A course is arranged with the minimum number of five participants and the prices can be checked in the Course schedule.

Cancellation
In case of cancellation, please inform us as soon as possible. This will allow another applicant to attend the course. Your place on a course can always be transferred to another person in your company or department. You may cancel the course until:

- more than four weeks before the course start: at no charge -
- less than four weeks before the course start: full course price will be charged.

Please note that a participant who fails to show up for a course without notice to the Training Center is invoiced the full course fee.

Course prices
A course is arranged with the minimum number of five participants and the prices can be checked in the Course schedule.

On-request courses
An on-request course is a training course that is arranged to a specific group/groups of employees of an organization in the Dundalk Training Center facilities. The price of an on-request course is always offered separately.

Reservations
We reserve the right to change course schedules, programs and contents. A scheduled course may be cancelled due to low enrollment (less than four participants) or other conditions. A maximum number of participants has been defined for every training course in order to meet the safety and quality standards and it varies between 6-8 persons depending on the type of the course.
### P&P Course Schedule - 2020

<table>
<thead>
<tr>
<th>Type</th>
<th>Title</th>
<th>Code</th>
<th>Days</th>
<th>Hours</th>
<th>Note</th>
<th>Price €</th>
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<tbody>
<tr>
<td><strong>QCS Controls</strong></td>
<td>QCS Machine-Direction (MD) Control</td>
<td>C103</td>
<td>5</td>
<td>35 hrs.</td>
<td>Mo.01:00pm to Fr.3:30pm</td>
<td>2,800</td>
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<tr>
<td></td>
<td>QCS Classic Single Variable Cross-Direction Control Tuning Methods</td>
<td>C111</td>
<td>3</td>
<td>19hrs</td>
<td>Mr.09:30am to We.15:30pm</td>
<td>2,000</td>
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<tr>
<td></td>
<td>QCS Cross-Direction (CD) Control</td>
<td>C107</td>
<td>5</td>
<td>35 hrs.</td>
<td>Mo.01:00pm to Fr.3:30pm</td>
<td>2,800</td>
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<tr>
<td></td>
<td>QCS Multivariable CD (MCD) Control</td>
<td>C109</td>
<td>5</td>
<td>35 hrs.</td>
<td>Mo.01:00pm to Fr.3:30pm</td>
<td>2,800</td>
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<tr>
<td></td>
<td>QCS Scanners &amp; Sensors</td>
<td>C111</td>
<td>5</td>
<td>35 hrs.</td>
<td>Mo.01:00pm to Fr.3:30pm</td>
<td>2,800</td>
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<tr>
<td></td>
<td>QCS Systems</td>
<td>C302</td>
<td>5</td>
<td>35 hrs.</td>
<td>Mo.01:00pm to Fr.3:30pm</td>
<td>2,950</td>
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<tr>
<td></td>
<td>C Advanced Maintenance for QCS800xA Systems</td>
<td>C306</td>
<td>5</td>
<td>35 hrs.</td>
<td>Mo.01:00pm to Fr.3:30pm</td>
<td>2,950</td>
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<tr>
<td><strong>QCS Systems</strong></td>
<td>Maintain QCS800xA Essentials</td>
<td>C302</td>
<td>5</td>
<td>35 hrs.</td>
<td>Mo.01:00pm to Fr.3:30pm</td>
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<tr>
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<td>QCS Machine-Direction (MD) Transition Control</td>
<td>C105</td>
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<td>Mo.01:00pm to Fr.3:30pm</td>
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<td></td>
<td>QCS Cross-Direction (CD) Control</td>
<td>C107</td>
<td>5</td>
<td>35 hrs.</td>
<td>Mo.01:00pm to Fr.3:30pm</td>
<td>2,800</td>
</tr>
<tr>
<td></td>
<td>QCS Multivariable CD (MCD) Control</td>
<td>C109</td>
<td>5</td>
<td>35 hrs.</td>
<td>Mo.01:00pm to Fr.3:30pm</td>
<td>2,800</td>
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<tr>
<td></td>
<td>Optical Caliper Sensor Maintenance</td>
<td>C17</td>
<td>3</td>
<td>48 hrs.</td>
<td>Mo.01:00pm to Fr.7:00pm</td>
<td>2,350</td>
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<tr>
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<td>Network Platform with QCS LAN</td>
<td>C225</td>
<td>10</td>
<td>70 hrs.</td>
<td>Mo.01:00pm to Fr.3:30pm</td>
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<td>Network Platform NPB800 Scanner</td>
<td>C237</td>
<td>4</td>
<td>28 hrs.</td>
<td>Mo.01:00pm to Fr.12:00pm</td>
<td>2,350</td>
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<tr>
<td></td>
<td>High Performance Sensors (HP Color, HPIR-T/FW &amp; MW DS20+)</td>
<td>C315</td>
<td>4</td>
<td>28 hrs.</td>
<td>Mo.01:00pm to Fr.12:00pm</td>
<td>2,350</td>
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<td>QCS Sensor Correlation</td>
<td>C317</td>
<td>5</td>
<td>35 hrs.</td>
<td>Mo.01:00pm to Fr.3:30pm</td>
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<td>Weight p(3) Profiler</td>
<td>C400</td>
<td>3</td>
<td>21 hrs</td>
<td>Mo.01:00pm to Th.12:00pm</td>
<td>2,100</td>
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<td>Induction p(3) Profiler</td>
<td>C401</td>
<td>2</td>
<td>14 hrs</td>
<td>Th.01:00pm to Fr.3:00pm</td>
<td>1,100</td>
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<tr>
<td><strong>WIS System</strong></td>
<td>WIS - System Maintenance</td>
<td>C372</td>
<td>5</td>
<td>35 hrs.</td>
<td>Mo.01:00pm to Fr.3:30pm</td>
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<td>WMS - System Maintenance</td>
<td>C250</td>
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<td>21 hrs</td>
<td>Mo.01:00pm to Th.12:00pm</td>
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<td></td>
<td>WIS - Automatic Break System (ABS)</td>
<td>C110</td>
<td>2.5</td>
<td>18hrs</td>
<td>Mo.01:00pm to We.12:30pm</td>
<td>2,350</td>
</tr>
</tbody>
</table>

### Table Compendium

**QCS Cross-Direction Control**

- **QCS Classic Single Variable Cross-Direction Control Tuning Methods**: 35 hrs., Mo.01:00pm to We.15:30pm, 2,000 €
- **QCS Cross-Direction (CD) Control**: 35 hrs., Mo.01:00pm to Fr.3:30pm, 2,800 €
- **QCS Multivariable CD (MCD) Control**: 35 hrs., Mo.01:00pm to Fr.3:30pm, 2,800 €

**QCS Systems**

- **Maintaining QCS800xA Essentials**: 35 hrs., Mo.01:00pm to Fr.3:30pm, 2,950 €
- **Advanced Maintenance for QCS800xA Systems**: 35 hrs., Mo.01:00pm to Fr.3:30pm, 2,950 €

**QCS Actuators**

- **Weight p(3) Profiler**: 21 hrs, Mo.01:00pm to Th.12:00pm, 2,100 €
- **Induction p(3) Profiler**: 14 hrs, Th.01:00pm to Fr.3:00pm, 1,100 €

**WIS System**

- **WIS - System Maintenance**: 35 hrs., Mo.01:00pm to Fr.3:30pm, 3,150 €
- **WMS - System Maintenance**: 21 hrs, Mo.01:00pm to Th.12:00pm, 2,100 €
- **WIS - Automatic Break System (ABS)**: 18 hrs, Mo.01:00pm to We.12:30pm, 2,350 €
Further information on the course schedules and offering

The QCS and WIS training is carried out in our Pulp and Paper Technology Centre in Dundalk, Ireland. General information on training, ordering instructions and travel to Dundalk Training Center (including recommended hotels) can also be found on the Internet page.

Internet


ABB University training programs are designed to help you achieve your business goals. We offer a wide range of training programs to help you optimize your business performance.

Reasons to attend training:
- Are you upgrading the hardware, software, or operator console in your current ABB system?
- Are you new to an ABB equipment and control system or replacing an existing one?
- Have you recently hired new employees or have existing employees changing roles?

Course Booking & Training Center Location

ABB Ltd.
Finnabair Industrial Park
Dundalk
Co. Louth
Ireland - A91 CY92

Email: IE-pnptraining@abb.com
Contact: Zuzana Kocmankova

Note: Specifications/schedule subject to change without notice.