Course registration
The online registration can be done via https://mylearning.abb.com. Go to the catalog and enter the course number in the Search field. Any scheduled classes of that course will be listed. Please note, to be able to register to any of these classes you need to be logged in.
In this e-brochure, the online registration can also be accessed by clicking on the respective course date.
There is also the option to ask for our enrollment form by sending your request to minerals.training@ch.abb.com.

Course descriptions
A description of each course can be found on our Web page.
If you follow the online registration process described above, you will also find a link to the course description in the class details.
In this e-brochure, the course description can also be accessed by clicking on the course names listed below.

Course prices
Please, contact our learning center to find out about the course prices.

Cancellation conditions
Except where otherwise stated, no fee is to be paid if the cancellation is received 21 calendar days prior to the start of the course. Thereafter 50% of the course fee is charged. For cancellation received up to 7 calendar days before the start of the course the full fee becomes due.
Please note, standard courses may be cancelled due to lack of participants. In this case you will be informed in time.

Course delivery
We offer
1. Classroom training in our learning center in Baden-Daettwil, Switzerland
2. Classroom training on-site at your plant or any other appropriate location near you
3. Web-based training (virtual classroom training) using a remote learning platform
Note, all the scheduled training courses mentioned below take place in our learning center in Switzerland.

Terms and conditions
We refer to our terms and conditions which can also be downloaded from our Web page or which might have been sent to you with this course portfolio.

Address of our learning center
ABB Switzerland Ltd.
LC Mining, Aluminium and Cement
Segelhofstrasse 1K
CH-5405 Baden-Daettwil
Phone +41 58 586 75 26
E-Mail minerals.training@ch.abb.com
Web http://new.abb.com/service/abb-university/ch/lc-cmm
## Editorial

### Vision
ABB University enhances the productivity of businesses and individuals for its customers and employees by making learning a valuable experience.

### Training conditions
For our training conditions please refer to our ABB University Switzerland – General Information brochure 2019.

### Scheduled classes
In our scheduled standard courses the trainees will gain practical experience using available tools and techniques by doing practical exercises. All of our standard courses are conducted in our future proof learning center in Baden, Switzerland.

### Tailored classes (on request)
The training can be held in our learning center in Switzerland or on-site at customer’s facilities. The program and content can be adapted according to your needs and requirements. All information related to your project will be used to run a custom-tailored training.

### Travel information
Some helpful travel information can be found on our webpage or in our ABB University Switzerland General Information brochure 2019.

## Course portfolio

<table>
<thead>
<tr>
<th>No.</th>
<th>Course title</th>
<th>Duration</th>
<th>Date</th>
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<td><strong>Process courses</strong></td>
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<tr>
<td>CHH603</td>
<td>Mining and Mineral Processing</td>
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<td>CHH610</td>
<td>Expert Optimizer – Fundamentals and Control Strategies</td>
<td>5 days</td>
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<td>Knowledge Manager – Application Engineering</td>
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<td>CHH621</td>
<td>Gearless Mill Drive – Theoretical System Overview</td>
<td>1 day</td>
<td>on request</td>
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<tr>
<td>CHH622</td>
<td>Gearless Mill Drive – Ring Motor Maintenance</td>
<td>2 days</td>
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<td>CHH624</td>
<td>Gearless Mill Drive – Operation and Maintenance</td>
<td>5 days</td>
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<td>CHH625</td>
<td>Gearless Mill Drive – Ring Motor Knowledge</td>
<td>5 days</td>
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<td>CHH627</td>
<td>Gearless Mill Drive – PSR2 Controller</td>
<td>3 days</td>
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<td>CHH629A</td>
<td>System 800xA – GMD Applications with Control Module</td>
<td>5 days</td>
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<td>CHH629B</td>
<td>System 800xA – GMD Applications with CDE</td>
<td>5 days</td>
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<td>ACS800 Operation and Maintenance</td>
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<td>CHH643</td>
<td>ACS880 Operation and Maintenance</td>
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<td>Ring-Geared Mill Drive System – Operation and Maintenance</td>
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<td>Ring-Geared Mill Drive System with E-house – Operation and Maintenance</td>
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<td>CHH651A</td>
<td>System 800xA Applications for Minerals – Configuration and Operation</td>
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<td>CHH651B</td>
<td>System 800xA Applications for Minerals – Configuration (with CDE) and Operation</td>
<td>10 days</td>
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<td>CHH653</td>
<td>System 800xA Applications for Minerals – Configuration and Operation Utilizing BMI Library</td>
<td>5 days</td>
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<td>System 800xA Applications for Minerals – Engineering with EBase and Control Builder</td>
<td>5 days</td>
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<td>5 days</td>
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<td>High Power Rectifier Systems – Operation and Maintenance</td>
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<td>FOCS Level 1</td>
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<td>CHJ252</td>
<td>FOCS Level 2</td>
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<td>CHJ400</td>
<td>AC800PEC for HPR – Hardware and Tools</td>
<td>1 day</td>
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<td>CHJ410</td>
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<td>CHJ950</td>
<td>PSR2/FUPLA2 Programming</td>
<td>5 days</td>
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Learning path for System 800xA

- CH-HE03A
  10 days
  System 800xA for Minerals
  Applications – Configuration and Operation

- CH-HE03B
  10 days
  System 800xA for Minerals
  Applications – Configuration (with CODES) and Operation

- CH-HE03C
  5 days
  System 800xA for Minerals
  Applications – Configuration and Operation Utilising BMI Library

- CH-HE03D
  2 days
  System 800xA for Minerals
  Applications – Operation

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optional/recommended

Learning path for High Power Rectifier (HPR)

- CH-HE05A
  1 days
  AC800PEC for HPR – Hardware and Tools

- CH-HE05B
  4 days
  High Power Rectifier Systems – Operation and Maintenance

- CH-HE05C
  5 days
  AC800PEC for HPR – Control Builder

- CH-HE05D
  5 days
  PSR2/PTRA Programming

- CH-HE05E
  2 days
  DCS Level 1

- CH-HE05F
  2 days
  DCS Level 2

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optional/recommended

required

Learning path for Expert Optimizer

- CH-HE060
  5 days
  Expert Optimizer – Fundamentals and Control Strategies

- CH-HE061
  5 days
  Expert Optimizer – Advanced Toolkit Engineering

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required
Learning path for Gearless Mill Drive (GMD)

- CH621: Gearless Mill Drive – Theoretical System Overview
  - 1 day
- CH624: Gearless Mill Drive – Operation and Maintenance
  - 5 days
- CH625A: System 800xA – GMD Applications with Control Module
  - 5 days
- CH625B: System 800xA – GMD Applications with CDE
  - 5 days
- CH622: Gearless Mill Drive – Ring Motor Maintenance
  - 2 days
- CH625: Gearless Mill Drive – Ring Motor Knowledge
  - 5 days

Electrical

Mechanical

optional/recommended