



Training Courses 2020

Regional Competence Center



- ABB-free@home®
- ABB i-bus® KNX
- KNX Certified Courses
- Energy Monitoring

ABB building products are universal in their use but uniform in their purpose: Increase comfort, safety and efficiency in all types of buildings.

Our solutions support helps you to make your buildings intelligent and shaped to the future.

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Training & Qualification

Competence in all areas

Expertise is an important factor for the successful realization of modern and efficient, electrical building infrastructures. The integration of different technical systems into true home and building automation solutions requires comprehensive and extensive know-how. In such a dynamic environment, permanent education is vital in order to successfully develop your individual technical skills or those of your organization.

The goal of our training and qualification offer is to support you in your further development. In addition to the traditional training programs offered by your local ABB sales team, we offer a variety of onsite trainings conducted by our specialists at different ABB training facilities and online learning modules for self-study purposes.

Each course aligns closely with some products and offers an indepth learning experience, combining both practical and theoretical elements. The number of participants is limited for a successful learning.

If you are interested in a training or you need more information about a course go to go.abb/ba-training or write us an E-mail (rcceu-training@abb.com). We would like to help you that you will get the best support.



ABB-free@home®



Simply smart. ABB-free@home® transforms the house or the apartment into an intelligent home. Whether blinds, lights, heating, air conditioning, door communication or scenes. Easy to remote control via a switch on the wall, with the laptop or with the smartphone. Very convenient. Extremely comfortable. Very energy efficient. Especially attractive: Only minimal costs are involved when compared with conventional electrical installations.

Solutions for Residential Buildings – ABB-free@home & ABB-secure@home

Description:

Every person has his individual idea about how his home can be perfected. Lighting, air-conditioning and safety, everything is perceived rather subjectively. With smart home automation everyone can design his home as he desires.

ABB-free@home® is a solution for residential buildings, that increases the comfort and security in your home. This training provides a comprehensive insight into the world of ABB-free@home®. The focus is on target groups, functions and unique features of the system. Through the practical exercises the participant is able to plan and commission a project after the training.

Target group:

Installers, System Integrators and Planner

Prerequisite:

Basic knowledge of standard electrical installations.

Dates:

06.02. – 07.02.2020

02.04. – 03.04.2020

28.05. – 29.05.2020

24.09. – 25.09.2020

22.10. – 23.10.2020

Training Location:

Busch-Jaeger Elektro GmbH

Freisenbergstraße 2

58513 Lüdenscheid, Germany

rcceu-training@abb.com

Period:

Day 1: 09:00 – 16:30

Day 2: 09:00 – 16:30

ABB is pleased to offer a free transfer service from Düsseldorf Airport, Frankfurt Airport and Dortmund Airport to your hotel.

Further Information and registration:

go.abb/ba-training

ABB i-bus® KNX



ABB i-bus® KNX is the synonym for smart home and intelligent building control. In this innovative system, all devices communicate with one another via a single bus cable which is installed in addition to the normal power lines. This means that all electrical functions are connected with one another via the bus system, both in residential and commercial buildings.

Solutions for Lighting Control with KNX

Description:

Lighting Control is the main function of KNX in buildings, both in commercial and residential projects. ABB i-bus® KNX offers various powerful solutions for almost all kind of requirements of lighting.

Learn about it, both in theory and practice, also in discussion with the trainer and other participants.

Target group:

Installers, System Integrators and Planner who are eager to learn more about Lighting Control solutions with KNX, both theoretical and practical on KNX training desks.

Prerequisite:

Knowledge of KNX in theory and practice (level certified Basic Course) Work with ETS 5.

Dates:

20.04. – 21.04.2020

23.07. – 24.07.2020

26.10. – 27.10.2020

Training Location:

ABB Customer Training Center

Heidelberg/Germany

Building 11

Eppelheimer Str. 82

69123 Heidelberg, GERMANY

rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00

Day 2: 09:00 – 16:00

ABB is pleased to offer a free transfer service from Frankfurt Airport and Frankfurt-Hahn Airport to your hotel.

Further Information and registration:

go.abb/ba-training

Security Solutions with KNX

Description:

KNX Security systems are used to monitor properties against unauthorized intrusion as well as to protect persons against hold-up and technical hazards. ABB i-bus® KNX offers various powerful solutions for almost all kind of requirements of security.

Learn about it, both in theory and practice, also in discussion with the trainer and other participants.

Target group:

Installers, System Integrators and Planner who are eager to learn more about Security Solutions with KNX, both theoretical and practical on KNX training desks.

Prerequisite:

Knowledge of KNX in theory and practice (level certified Basic Course) Work with ETS 5.

Dates:

25.05. – 26.05.2020

Training Location:

ABB Customer Training Center
Heidelberg/Germany
Building 11
Eppelheimer Str. 82
69123 Heidelberg, GERMANY
rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00
Day 2: 09:00 – 16:00

ABB is pleased to offer a free transfer service from Frankfurt Airport and Frankfurt-Hahn Airport to your hotel.

Further Information and registration:

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KNX for Commercial Building

Description:

ABB i-bus® KNX offers various powerful solutions for almost all kind of requirements in commercial buildings. In this training you will get to know different solutions in theory and practice.

“Good air” is essential for performance, comfort and health. The well-being and the ability to concentrate in the workplace are also dependent on good indoor air quality. Especially in schools, conference rooms, hospitals or offices, you are often in short supply. It is mainly influenced by three factors: the CO₂ content in the air, the humidity and the temperature.

Target group:

Installers, System Integrators and Planner who are eager to learn more about Visualisation solutions with KNX, both theoretical and practical on KNX training desks.

Prerequisite:

Knowledge of KNX in theory and practice (level certified Basic Course) Work with ETS 5.

Dates:

02.07. – 03.07.2020

10.12. – 11.12.2020

Training Location:

Busch-Jaeger Elektro GmbH
Freisenbergstraße 2
58513 Lüdenscheid, Germany
rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00

Day 2: 09:00 – 16:00

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Further Information and registration:

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ABB Solutions for KNX Visualisation

Description:

Intuitive and modern – the way building control should function. Ideally, the permanently installed panel is handled similar to a mobile terminal device. This means that the entire house, the apartment, the office or business premises can be controlled with a swiping gesture or the tip of the finger. In this practical training the participants will get knowledge about planning and commissioning visualisation solutions with KNX. The focus is on the Busch-ControlTouch and the Busch-SmartTouch.

Target group:

Installers, System Integrators and Planner who are eager to learn more about Visualisation solutions with KNX, both theoretical and practical on KNX training desks.

Prerequisite:

Knowledge of KNX in theory and practice (level certified Basic Course) Work with ETS 5.

Dates:

16.07. – 17.07.2020
12.11. – 13.11.2020

Training Location:

Busch-Jaeger Elektro GmbH
Freisenbergstraße 2
58513 Lüdenscheid, Germany
rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00
Day 2: 09:00 – 16:00

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Further Information and registration:

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KNX in Hotel Rooms

Description:

Intelligent building control from ABB is the solution to meet the requirements of today's modern hotel buildings and ultimately form a sound basis for successful investments. The heart of the hotel concept is the ABB Room Master – the central device for the entire electrical installation within the hotel room. Learn about it, both in theory and practice, also in discussion with the trainer and other participants.

Target group:

Installers, System Integrators and Planner who are eager to learn more about solutions in hotel rooms with KNX, both theoretical and practical on KNX training desks.

Prerequisite:

Knowledge of KNX in theory and practice (level certified Basic Course) Work with ETS 5.

Dates:

28.05. – 29.05.2020
12.10. – 13.10.2020

Training Location:

ABB Customer Training Center
Heidelberg/Germany
Building 11
Eppelheimer Str. 82
69123 Heidelberg, GERMANY
rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00
Day 2: 09:00 – 16:00

ABB is pleased to offer a free transfer service from Frankfurt Airport and Frankfurt-Hahn Airport to your hotel.

Further Information and registration:

go.abb/ba-training

Shading in Buildings with KNX

Description:

Modern building installation enables a high degree of functionality and simultaneously complies with increased shading requirements. The role of protection against the sun in buildings is growing in significance due to increasing energy costs and statutory regulations. With intelligent and automated control shading plays a significant role in the energy efficiency of all kinds of buildings. Learn about it, both in theory and practice, also in discussion with the trainer and other participants.

Target group:

Installers, system integrators and planner who are eager to learn more about shading solutions with KNX, both theoretical and practical on KNX training desks.

Prerequisite:

Knowledge of KNX in theory and practice (level certified Basic Course) Work with ETS 5.

Dates:

03.02. – 04.02.2020

Training Location:

ABB Customer Training Center
Heidelberg/Germany
Building 11
Eppelheimer Str. 82
69123 Heidelberg, GERMANY
rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00
Day 2: 09:00 – 16:00

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Further Information and registration:

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HVAC Automation with KNX

Description:

Heating, Ventilation, Air Conditioning (HVAC) is beside lighting the most important application in a building, both in commercial and residential projects, needed in every building.

ABB i-bus® KNX offers various powerful solutions for this application, from the field level up to the automation/management level, collected under the term ClimaECO.

Learn about it, both in theory and practice, also in discussion with the trainer and other participants.

Target group:

Installers, System Integrators and Planner who are eager to learn more about HVAC Automation with KNX from ABB, both theoretical and practical on KNX training desk.

Prerequisite:

Knowledge of KNX in theory and practice (level certified Basic Course) Work with ETS 5.

Dates:

06.02. – 07.02.2020

08.06. – 09.06.2020

01.10. – 02.10.2020

30.11. – 01.12.2020

Training Location:

ABB Customer Training Center

Heidelberg/Germany

Building 11

Eppelheimer Str. 82

69123 Heidelberg, GERMANY

rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00

Day 2: 09:00 – 16:00

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Further Information and registration:

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DALI Lighting Control with KNX

Description:

DALI Lighting Control with KNX is a powerful solution for Lighting Control in buildings, mainly in commercial buildings. ABB i-bus® KNX offers various products for almost all kind of requirements of lighting with DALI and KNX.

Learn about it, both in theory and practice, also in discussion with the trainer and other participants.

Target group:

Installers, System Integrators and Planner who are eager to learn more about DALI Lighting Control solutions with KNX, both theoretical and practical on KNX training desks.

Prerequisite:

Knowledge of KNX in theory and practice (level certified Basic Course) Work with ETS 5.

Dates:

23.04. – 24.04.2020
02.07. – 03.07.2020
17.09. – 18.09.2020
29.10. – 30.10.2020

Training Location:

ABB Customer Training Center
Heidelberg/Germany
Building 11
Eppelheimer Str. 82
69123 Heidelberg, GERMANY
rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00
Day 2: 09:00 – 16:00

ABB is pleased to offer a free transfer service from Frankfurt Airport and Frankfurt-Hahn Airport to your hotel.

Further Information and registration:

go.abb/ba-training

ClimaECO Building Automation Controller BAC/S

Description:

Heating, Ventilation, Air Conditioning (HVAC) is beside lighting the most important application in a building, both in commercial and residential projects, needed in every building. ABB i-bus KNX offers various powerful solutions for this application, from the field level up to the automation/management level, collected under the term ClimaECO.

The Building Automation Controller BAC/S 1.5.1, based on ABB's PLC AC500, is a powerful device which allows to solve demanding tasks in the range of HVAC and KNX.

Learn about the hardware, the software Automation Builder and the integration into KNX together with the other ClimaECO devices, both in theory and practice, also in discussion with the trainers and other participants.

Target group:

ABB Colleagues, but also Installers and System Integrators who need to learn more about the Building Automation Controller BAC/S from ABB, both theoretical and practical with training equipment.

Prerequisite:

- Knowledge of KNX in theory and practice (level certified Basic Course)
- Work with ETS5
- Basic Knowledge about Programmable Logic Control (PLC) Knowledge about ClimaECO from ABB.

Dates:

29.06. – 30.06.2020

Training Location:

ABB Customer Training Center
Heidelberg/Germany
Building 11
Eppelheimer Str. 82
69123 Heidelberg, GERMANY
rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00
Day 2: 09:00 – 16:00

ABB is pleased to offer a free transfer service from Frankfurt Airport and Frankfurt-Hahn Airport to your hotel.

Further Information and registration:

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Welcome IP

Description:

ABB-Welcome IP raises the new technology to fulfil all needs of project developers for building and construction facing the communication inside and outside of buildings. Unfolding the full potential of the IP technology, ABB-Welcome IP goes ahead with innovative features and fits all given surroundings without neglecting the aesthetic and elegant design.

This training provides a comprehensive insight into the world of ABB-Welcome IP.

The focus is on planning, installing and commissioning the system. Through the practical exercises the participant is able to plan and realize all important functions in a project after the training.

Target group:

System Integrators and installer with good network technology knowledge.

Prerequisite:

Solid network technology knowledge and basic knowledge of standard electrical installations.

Dates:

13.02. – 14.02.2020
14.05. – 15.05.2020
10.09. – 11.09.2020
08.10. – 09.10.2020
26.11. – 27.11.2020

Training Location:

ABB Customer Training Center
Heidelberg/Germany
Building 11
Eppelheimer Str. 82
69123 Heidelberg, GERMANY
rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00
Day 2: 09:00 – 16:00

ABB is pleased to offer a free transfer service from Frankfurt Airport and Frankfurt-Hahn Airport to your hotel.

Further Information and registration:

go.abb/ba-training

KNX Certified Courses



ABB also offers certified Courses.

KNX Certified Basic Course

**Please note: This course takes place
in Heidelberg or Singapore.**

Description:

Basics of KNX
System Overview
Topology
ETS 5 Professional
Telegram structure
Controlling of lights and shutter/blinds
Line coupler
Practical work with ETS5
Theoretical and practical exam
according to KNX-rules

Training Location:

ABB Customer Training Center
Heidelberg/Germany
Building 11
Eppelheimer Str. 82
69123 Heidelberg, GERMANY
rcceu-training@abb.com

Dates:

17.02. – 21.02.2020
16.11. – 20.11.2020

Period:

Day 1: 09:00 – 17:00
Day 2: 09:00 – 17:00
Day 3: 09:00 – 17:00
Day 4: 09:00 – 17:00
Day 5: 09:00 – 15:00

For further information (seminar fee, arrangement support, visa, etc.) please contact your local ABB partner.

ABB is pleased to offer a free transfer service from Frankfurt Airport and Frankfurt-Hahn Airport to your hotel.

Further Information and registration:
go.abb/ba-training

Training Location:

ABB Customer Training Center Singapore
2 Ayer Rajah Crescent
Singapore 139935

For Certified Basic Courses in Singapore please visit our Training Calendar: go.abb/ba-training

Period:

Day 1: 09:00 – 17:00
Day 2: 09:00 – 17:00
Day 3: 09:00 – 17:00
Day 4: 09:00 – 17:00
Day 5: 09:00 – 15:00

KNX Certified Advanced Course

Description:

Advanced Knowledge of KNX
ETS Apps
Integrated Applications
Logic Operations
HVAC control with KNX
Security Technology
IP Router
KNX and Multimedia
KNX and Smart Metering Visualization Systems
Practical exam according to KNX-rules

Prerequisite:

Passing the KNX Basic exam (KNX Partner).

Dates:

13.07. – 17.07.2020

Training Location:

ABB Customer Training Center
Heidelberg/Germany
Building 11
Eppelheimer Str. 82
69123 Heidelberg, GERMANY
rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00
Day 2: 09:00 – 17:00
Day 3: 09:00 – 17:00
Day 4: 09:00 – 17:00
Day 5: 09:00 – 15:00

For further information (seminar fee, arrangement support, visa, etc.) please contact your local ABB partner.

ABB is pleased to offer a free transfer service from Frankfurt Airport and Frankfurt-Hahn Airport to your hotel.

Further Information and registration:

go.abb/ba-training



KNX Certified Tutor Course

Description:

Tutor Knowledge of KNX
Refreshing and updating of KNX Knowledge
Working with ETS5
KNX Software
Couplers
Serial data transmission
KNX protocol
Microcontrollers
IP Communication
Theoretical exam according to KNX-rules

Prerequisite:

Passing the KNX Basic exam (KNX Partner) and
KNX Advanced exam.

Dates:

19.10. – 23.10.2020

Training Location:

ABB Customer Training Center
Heidelberg/Germany
Building 11
Eppelheimer Str. 82
69123 Heidelberg, GERMANY
rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00
Day 2: 09:00 – 17:00
Day 3: 09:00 – 17:00
Day 4: 09:00 – 17:00
Day 5: 09:00 – 15:00

For further information (seminar fee, arrangement support, visa, etc.) please contact your local ABB partner.

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Further Information and registration:

go.abb/ba-training

Energy Monitoring



The recording of energy variables and values, as well as their processing, is continually gaining in significance. This is not just due to the rising energy costs but also due to the frequently demanded evaluation and reading possibilities via a decentralized reading station.

The features of the EQmatic series help to meet these requirements and can provide operators and users with convenient, cost-effective solutions for modern energy management.

ABB offers a wide range of devices and solutions specially designed for these applications.

Energy Monitoring

Description:

ABB i-bus® KNX is designed to reduce building operating costs and to employ the required energy consumption according to demand. Objectives are optimization of resources, climate protection, and cost saving while keeping the comfort level of users at its highest. ABB offers various powerful solutions for almost all kind of requirements of energy measurement and management.

Learn about it, both in theory and practice, also in discussion with the trainer and other participants.

Target group:

Installers, system integrators and planner who are eager to learn more about energy monitoring solutions, both theoretical and practical on KNX training desks.

Prerequisite:

Knowledge of KNX in theory and practice (level certified Basic Course) Work with ETS 5.

Dates:

11.05. – 12.05.2020

28.09. – 29.09.2020

03.12. – 04.12.2020

Training Location:

ABB Customer Training Center

Heidelberg/Germany

Building 11

Eppelheimer Str. 82

69123 Heidelberg, GERMANY

rcceu-training@abb.com

Period:

Day 1: 09:00 – 17:00

Day 2: 09:00 – 16:00

ABB is pleased to offer a free transfer service from Frankfurt Airport and Frankfurt-Hahn Airport to your hotel.

Further Information and registration:

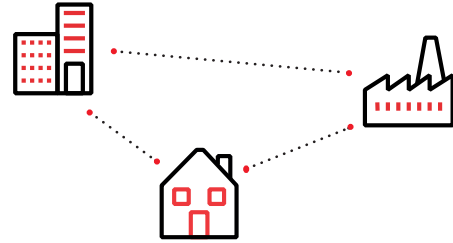
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Training Courses 2020

Regional Competence Center

Annual Overview

January		February	March
ABB-free@home®		<ul style="list-style-type: none"> Solutions for Residential Buildings – ABB-free@home & ABB-secure@home 	
ABB i-bus® KNX		<ul style="list-style-type: none"> Shading in Buildings with KNX HVAC Automation with KNX Welcome IP KNX Certified Basic Course 	
Energy Monitoring			
July		August	September
ABB-free@home®			<ul style="list-style-type: none"> Solutions for Residential Buildings – ABB-free@home & ABB-secure@home
ABB i-bus® KNX		<ul style="list-style-type: none"> Solutions for Lighting Control with KNX KNX for Commercial Building ABB Solutions for KNX Visualisation DALI Lighting Control with KNX KNX Certified Advanced Course 	<ul style="list-style-type: none"> DALI Lighting Control with KNX Welcome IP
Energy Monitoring			<ul style="list-style-type: none"> Energy Monitoring



	April	May	June
ABB-free@home®	<ul style="list-style-type: none"> Solutions for Residential Buildings – ABB-free@home & ABB-secure@home 	<ul style="list-style-type: none"> Solutions for Residential Buildings – ABB-free@home & ABB-secure@home 	
ABB i-bus® KNX	<ul style="list-style-type: none"> Solutions for Lighting Control with KNX DALI Lighting Control with KNX 	<ul style="list-style-type: none"> Security Solutions with KNX KNX in Hotel Rooms Welcome IP 	<ul style="list-style-type: none"> HVAC Automation with KNX ClimaECO Building Automation Controller BAC/S
Energy Monitoring		<ul style="list-style-type: none"> Energy Monitoring 	
	October	November	December
ABB-free@home®	<ul style="list-style-type: none"> Solutions for Residential Buildings – ABB-free@home & ABB-secure@home 	<ul style="list-style-type: none"> HVAC Automation with KNX 	
ABB i-bus® KNX	<ul style="list-style-type: none"> Solutions for Lighting Control with KNX KNX in Hotel Rooms HVAC Automation with KNX DALI Lighting Control with KNX Welcome IP KNX Certified Tutor Course 	<ul style="list-style-type: none"> ABB Solutions for KNX Visualisation Welcome IP KNX Certified Basic Course 	<ul style="list-style-type: none"> KNX for Commercial Building
Energy Monitoring			<ul style="list-style-type: none"> Energy Monitoring

Questions?
Go to go.abb/ba-training for further information.





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go.abb/ba-training

[www.new.abb.com/low-voltage/
products/building-automation](https://www.new.abb.com/low-voltage/products/building-automation)

