E-MOBILITY TRAINING

Charger product and service training

Supporting best-in-class deployment and operation

ABB E-mobility product and service training programs support the optimal deployment and operation of ABB EV charging technology in the field.

Training programs are offered virtually and in-person in an ABB training facility or at a customer's preferred charging site.

Training supports operational excellence
ABB E-mobility chargers are designed for safe and reliable operation through their lifecycle. EV charging applications can be demanding and therefore must be supported by proper installation and commissioning as well as a comprehensive operational model and service program.

Training on ABB E-mobility products, systems and solutions will support the key technical and deployment knowledge that our partners and customers need to be successful with their transportation electrification projects.

Participant profile
This course is intended for ABB E-mobility customers, service partners and value-added resellers who may be responsible for charging site design, installation and commissioning and/or charger operations and service.

Safety
Safety discussions will take place at the beginning of every ABB E-mobility training session and right before any hands-on event. Topics will include but not be limited to: Lock Out/Tag Out, hand safety, eye safety, PPE, lifting and electrical safety.

Prepare workforce for tech support of industry-leading EV chargers

Support high performing charging systems at every site

Ensure safety from site design through life-cycle operation

Earn training certifications for each course

ABB E-mobility training courses
Available in virtual and in-person formats

ABB E-mobility product and service training programs are offered virtually for introductory classes, and in-person formats for advanced training.

ABB E-mobility product and service training course offerings

Part number	Course number	Course Name	Duration	Delivery format
L1-DCWB-TRN-V	DCWBL-101	Level 1 DC Wallbox Training	1 day	Virtual
L1-TXX-TRN-V	T5X-101	Level 1 Terra 53/54/54HV Training	1 day	Virtual
L1-TXX4-TRN-V	TXX4-101	Level 1 Terra 94/124/184 Training	1 day	Virtual
L1-THP-TRN-V	THP-101	Level 1 Terra HP High Power Training	1 day	Virtual
L1-HVC-D-TRN-V	HVC-D-101	Level 1 HVC Depot Box Training	1 day	Virtual
L1-HVC-P-TRN-V	HVC-P-101	Level 1 HVC Pantograph System Training	1 day	Virtual
L2-DCWB-TRN-220	DCWBL-201-L	Level 2 DC Wallbox Intermediate 220 w Cert	2 days	Instructor-led/Lab
L2-TXX-TRN-220	TXX-201-L	Level 2 Terra 53/54/54HV Intermediate 220 w Cert	2 days	Instructor-led/Lab
L2-TXX4-TRN-220	TXX4-201-L	Level 2 Terra 94/124/184 Intermediate 220 w Cert	2 days	Instructor-led/Lab
L2-THP-TRN -220	THP-201-L	Level 2 Terra High Power Intermediate 220 w Cert	2 days	Instructor-led/Lab
L2-HVC-D-TRN-220	HVC-D-201-L	Level 2 HVC Depot Intermediate 220 w Cert	2 days	Instructor-led/Lab
L2-HVC-P-TRN-220	HVC-P-201-L	Level 2 HVC Pantograph Intermediate 220 w Cert	2 days	Instructor-led/Lab

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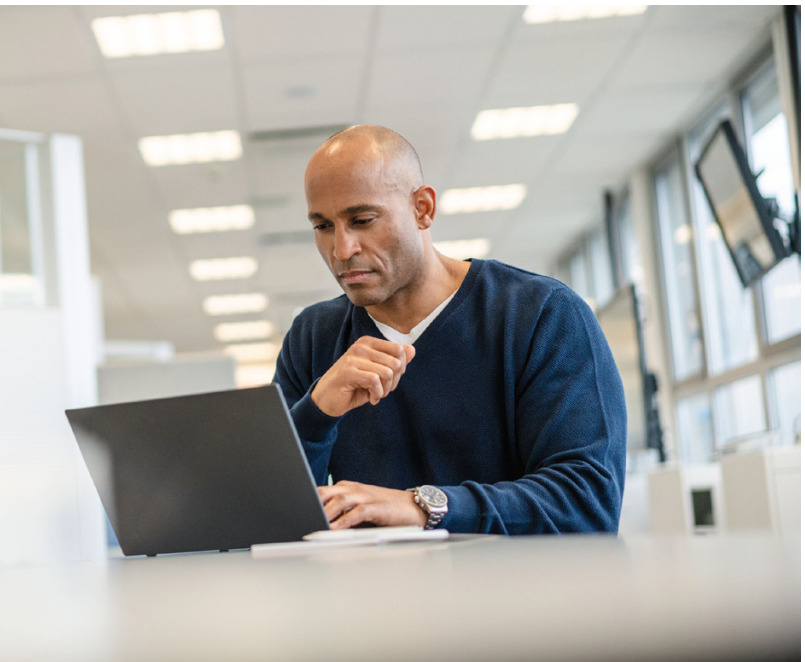
Training classes can be held at customer site assuming local charger and classroom availability.

ABB E-mobility training programs fit the flexible needs of every organization focused on supporting the growing needs of the EV charging industry.



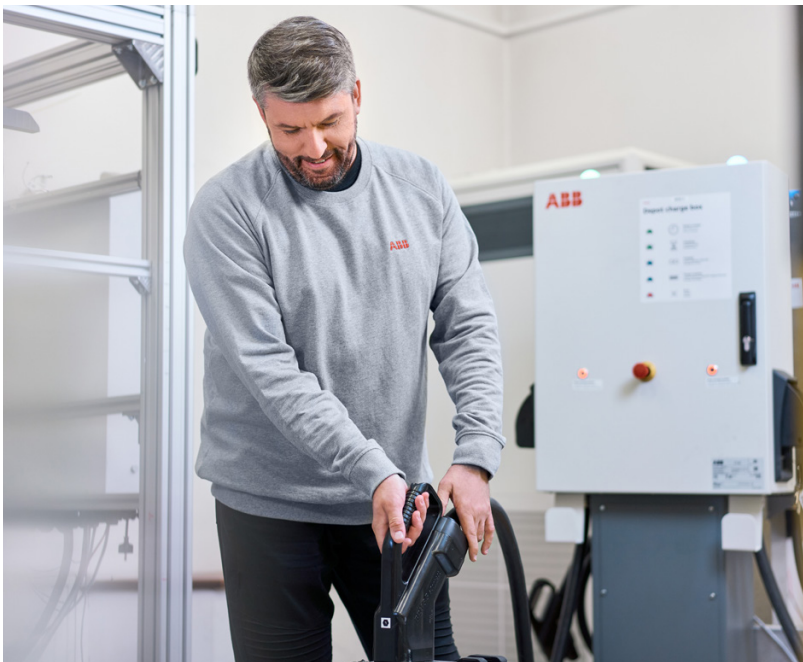


ABB E-mobility training courses

Delivering e-mobility workforce success

Product training topics

ABB E-mobility product training courses include instructor led topics covering specification operation and maintenance of the charger including:

- Specifications and configurations of the charger products and systems
- Pre-installation best practices
- Installation process
- Charger operations
- Commissioning process
- Site acceptance
- Maintenance topics
- Remote services

Hands-on training

In addition to classroom-based product and service training, these programs include hands-on training in the lab or in the field, including:

- Safely opening charging units
- Component identification
- Circuit board identification
- Wiring specifics (AC and DC)
- Power module operation
- Component inspections
- Mounting options
- Operations
- Maintenance and parts

Course objectives

After successfully completing the course, the participant should be able to understand and identify:

- Key charging product and system components
- Proper commissioning initiation and execution
- All areas of safety as they pertain to the electrical connection and charging system
- Safe and proper electrical procedures and relevant PPE equipment
- Installation methods and best practices
- Start-up, operation and shut-down of chargers
- Sound service and maintenance strategies
- ABB E-mobility service organization and tools
- Diagnostic and trouble-shooting tools
- For Level 2 courses, upon completion the tech will be able to identify most issues and bring them to resolution.

Prerequisites

- Introductory training on the ABB E-mobility portfolio offering including applications and charging deployment best practices
- Familiarity with technical concepts and electrical terminology
- Basic electrical safety training on systems up to 480 V
- Level 2 courses require successful completion of Level 1 course
- NFPA 70E arc flash training for Level 2 courses
- Minimum 3 months experience working electrical systems up to 480 V

Materials provided

- Electronic access to service manuals and training materials
- Digital certificate issued to participant upon the successful completion of each course (Level 2 in-person courses require 80% passing grade to receive ABB E-mobility certification)

Participation requirements for Level 1 virtual courses

- Each student will be sent the course material via email for the specific course
- Each student must have a working video camera, speakers and a microphone on their PC or personal device and test functionality before the class
- Students should login 15-30 minutes early to verify connection to the virtual session
- Students must be present on camera during the entire class
- Students should participate from a location with no background noise for optimal focus and least ambient noise
- Tests will be administered while students are on camera to ensure engagement and completion

Participation requirements and notes for Level 2 in-person courses

- Students must wear electrically safe, cotton clothing garments, safety glasses and safety shoes
- Students are responsible for all travel costs
- Training at ABB facility includes lunch
- ABB Trainer travel costs to customer site are additional

To request a training quotation or enroll in a course

- Contact our service team at us-chargerdesk@abb.com or contact your ABB sales representative

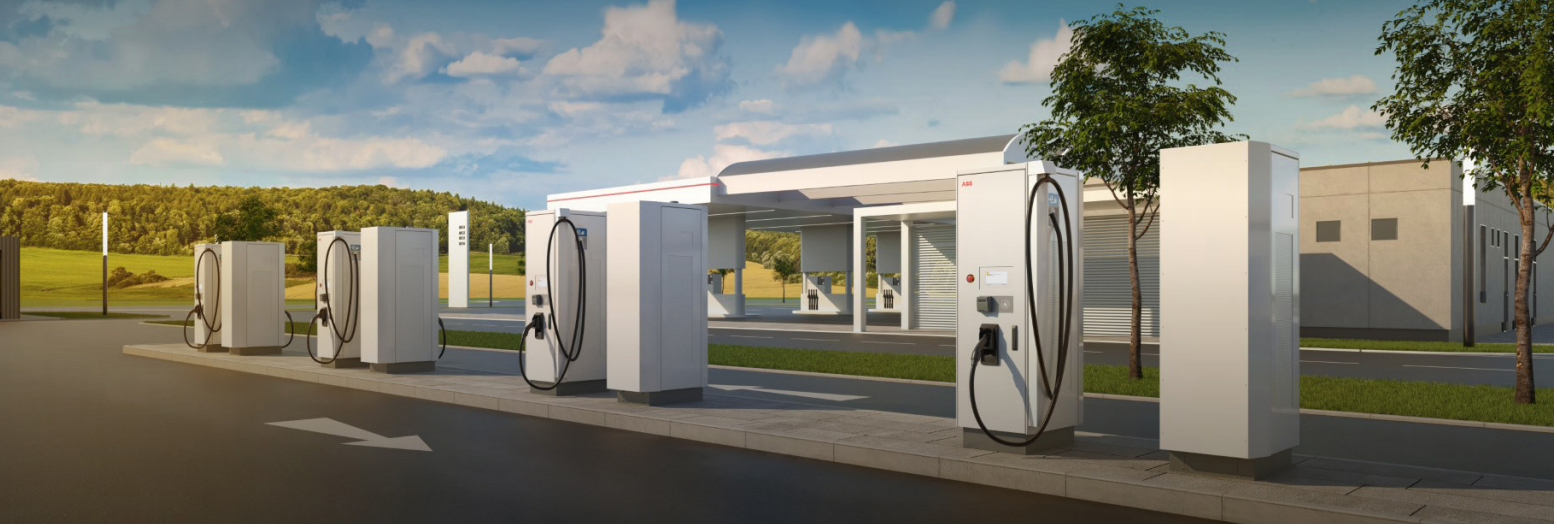


ABB E-mobility has the technology, services and experience to enable successful EV charging programs.

SUPERIOR CHARGERS

The highest quality and widest range of charging technology

- High quality: components, materials and designs in the widest power range
- Field tested: Built on more than decade of experience in all conditions and use cases
- Safety first: Third party certifications; company-wide health, safety and sustainability mandates.

SMARTEST SERVICES

The most flexible provider of smart, networked and remotely serviced chargers

- Business model enablement, technology integration teams and on-line connectivity
- High uptime: Remote and field service support team for exceptional charger availability
- Future-proof: Always up to date with latest standards and protocols

RELIABLE PARTNER

Vast experience designing and deploying EV charging technology

- Project and service excellence: Dedicated teams to support charger deployment and maintenance
- Human talent: Unrivaled engineering and service organization
- Committed: Electrifying transportation for more than a decade

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