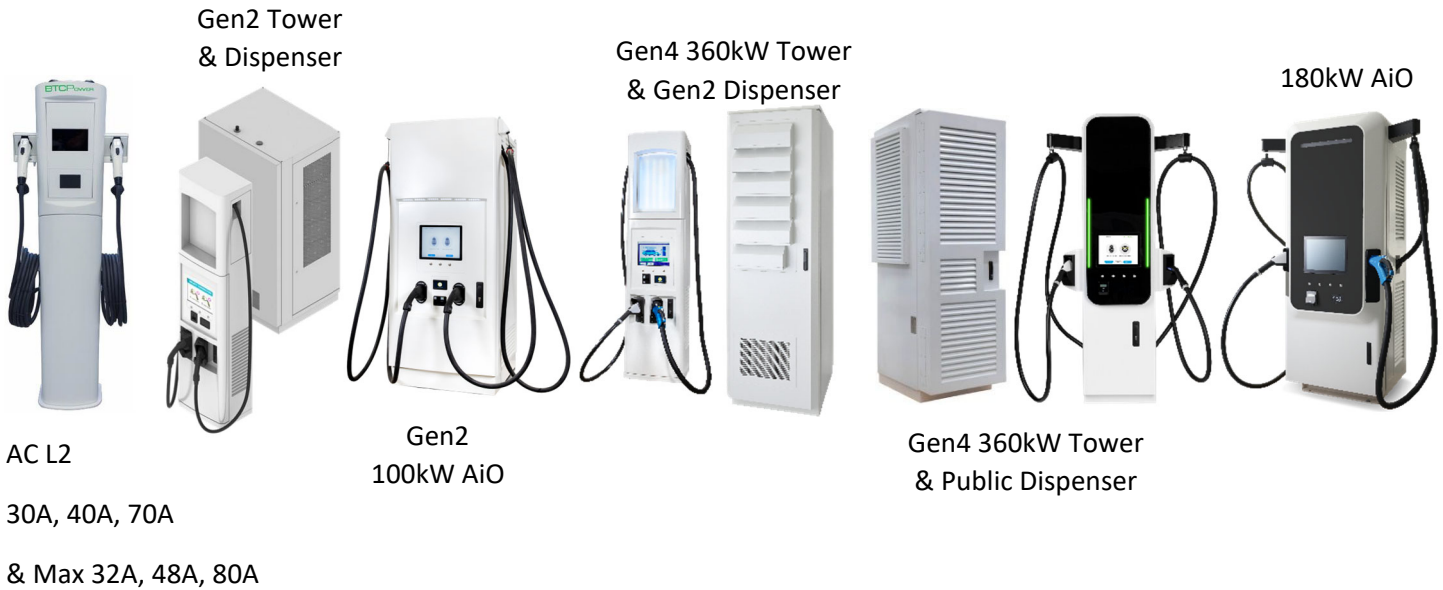


# BTC POWER



## TECHNICIAN CERTIFICATION COURSE

The BTC Power Technician Certification Course is in-depth training on how to service and repair BTC Power Chargers.

Upon completion of the course, the technician will be certified to work on BTC Power chargers.

The course costs are as follows:

**\$2,250\* per technician**

The training course spans three days, and lunch is provided.

Reach out to your BTC POWER point of contact or email [training@btcpower.com](mailto:training@btcpower.com) to inquire about class availability.

- Prices subject to change.

# BTC POWER TRAINING GUIDELINES

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## REQUIRED PREREQUISITES

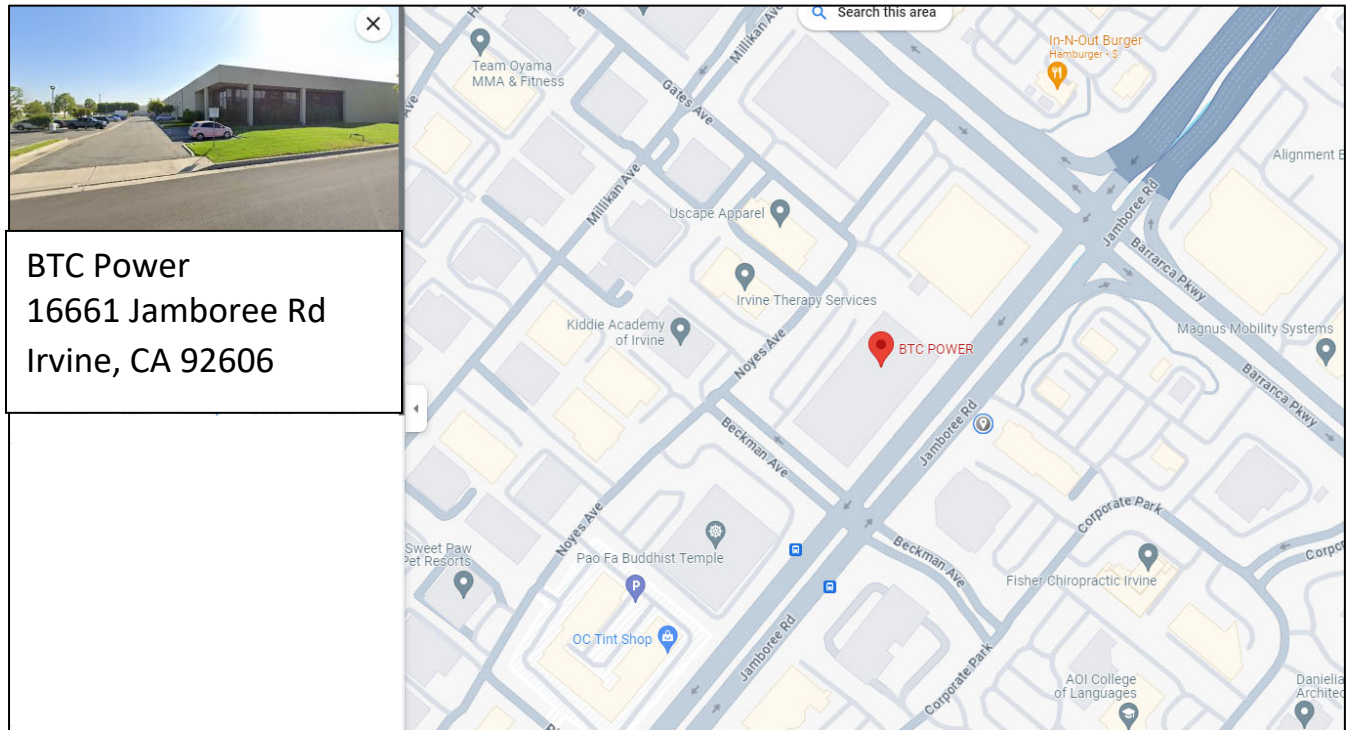
This course offered by BTC POWER is designed for skilled technicians to learn our product operation and repair procedures. This course does not teach basic technician skills.

To attend this course and get the most value, we require technicians to come to class already possessing the following basic skills and knowledge:

1. OSHA Safety training:
  - a. There are many online OSHA-10 courses that cover important safety topics.
2. Fluent in English.
3. Basic hand tool use.
4. Torque wrench use.
5. Meter setting for AC/DC Voltage and continuity.
  - a. Fluke offers an online course that covers these meter settings and use.
6. We require a sign-off from your present supervisor or manager that you meet all these criteria.

# BTC POWER TRAINING GUIDELINES

## TRAINING LOCATION



## AIRPORTS

AIRPORT CODE	NAME	DISTANCE	NOTES
SNA	John Wayne/Santa Ana	5 miles	Highly Recommended
LGB	Long Beach Airport	23 miles	25 to 40 minute commute
LAX	Los Angeles International	43 miles	60 to 90 minute commute
ONT	Ontario	38 miles	

## HOTEL RECOMMENDATIONS

NAME	Cost Est*	ADDRESS	PHONE	WEBSITE
Embassy Suites by Hilton (2miles/5 min)	\$127 to \$182	1325 E. Dyer Road Santa Ana, CA 92705	714-241-3800	<a href="#">Embassy Suites by Hilton Santa Ana Orange County Airport - Google hotels</a>
Residence Inn by Marriott (4miles/8 min)	\$143 to \$255	15181 Newport Ave Tustin CA 92780	714-258-9700	<a href="#">Residence Inn by Marriott Tustin Orange County - Google hotels</a>
Fairfield Inn and Suites by Marriott (4 miles/8 min)	\$128 to \$220	15011 Newport Ave Tustin, CA 92780	714-258-9900	<a href="#">Hotel near Santa Ana, CA   Fairfield Inn &amp; Suites Tustin Orange County (marriott.com)</a>

\*Estimates only, pricing varies, please contact the hotels for exact cost.

# BTC POWER TRAINING GUIDELINES

## 3-DAY TECHNICIAN TRAINING OUTLINE

DAY	TOPICS	HANDS-ON
<b>Day 1 Introduction &amp; AC Level 2</b>	<ul style="list-style-type: none"> <li>A. Introduction to EV Charging &amp; BTC Power Chargers</li> <li>B. Safety Review</li> <li>C. Review required service tools and equipment</li> <li>D. Case Management</li> <li>E. Documentation</li> <li>F. Level 2 Chargers                             <ul style="list-style-type: none"> <li>a. Specifications</li> <li>b. Theory of Operation</li> <li>c. Commissioning</li> <li>d. Troubleshooting</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>1. Tour of the BTC Power Facility and Product Line</li> <li>2. Documentation Access</li> <li>3. Voltage Check</li> <li>4. Charge Cable Remove &amp; Install</li> <li>5. Display Replacement</li> </ul>
<b>Day 2 DC Level 3</b>	<ul style="list-style-type: none"> <li>A. Introduction to Level 3 Chargers</li> <li>B. AC Input</li> <li>C. Step-down Transformers</li> <li>D. Power Supplies</li> <li>E. AC to DC Power Conversion</li> <li>F. Soft Start</li> <li>G. Bleed Resistors</li> <li>H. Safety Relay, Safety Loops &amp; Relays</li> <li>I. External Charger Anatomy</li> <li>J. Cooling</li> <li>K. Charge Plugs and Communications</li> <li>L. SECC Cards</li> </ul>	<ul style="list-style-type: none"> <li>6. Adjusting power supplies</li> <li>7. Understanding Safety Loop Components &amp; Function</li> <li>8. Configuring SECC Cards</li> </ul>
	<p><b>HPC Distributed Chargers (Gen2)</b></p> <ul style="list-style-type: none"> <li>A. Specifications</li> <li>B. Anatomy</li> <li>C. Charge Strategies</li> <li>D. Component Maintenance Schedule</li> <li>E. MCU's &amp; Thermistor Landings &amp; Settings</li> <li>F. Safety Relay Operation</li> <li>G. Power Module Anatomy</li> <li>H. Commissioning Issues</li> </ul>	<p><b>Tower</b></p> <ul style="list-style-type: none"> <li>9. MCU 4.3 Dip Switch Settings</li> <li>10. Fan Testing and Override</li> <li>11. Air Filter Access</li> <li>12. CAN Bypass for Testing</li> <li>13. Voltage Check</li> <li>14. Power Module Address Setting</li> <li>15. Power Module Rebuild</li> <li>16. Torque Wrench Use</li> </ul> <p><b>Dispenser</b></p> <ul style="list-style-type: none"> <li>17. MCU Thermistor Landings, Jumpers, and Dip Switch Settings</li> <li>18. SECC Replacement &amp; Settings</li> <li>19. Liquid Cooled Pump Manual Override</li> <li>20. MCU Hex Code Programming</li> <li>21. A full commissioning of a tower and dispenser</li> </ul>

## BTC POWER TRAINING GUIDELINES

<b>Day 2</b> <b>DC Level 3</b> <b>Continued</b>		22. CCS1 Liquid Cooled Charge Plug terminal replacement 23. CCS1 Liquid cooled charge cable remove and install 24. Cooling system maintenance
	100kW All In One Overview	25. HPC Comparison
	<b>VOLTA</b> A. Overview <u>ONLY for technicians that work on Volta.</u>	26. Dispenser Address Setting on Superboard 1.0
<b>Day 3</b> <b>DC Level 3</b> <b>GEN 4</b>	<b>360kW Distributed Charger</b> A. Specifications B. Anatomy C. Charge Strategies D. Safety Operation E. Commissioning Issues	<b>Tower 4.0/4.1</b> 27. Power Module Remove & Install 28. Control Box Access 29. Air Filter Access  <b>Public Dispenser</b> 30. IMD Programming 31. Meter Programming 32. Air Filter Access
	<b>180kW All In One</b> A. Specifications B. Anatomy C. Charge Strategies D. Component Maintenance Schedule E. MCU's & Thermistor Landings & Settings F. Power Module Anatomy G. Commissioning Issues	33. Fan Module and Air Filter Remove and Install 34. Power Module Access 35. Liquid Cooling Unit Access 36. Charge Cable Access 37. IMD and DC Contactor Access

## BTC POWER TRAINING GUIDELINES

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### OPTIONAL CHARGER TRAINING AVAILABLE ON REQUEST

These chargers and hands-on activities can be included in a private class. Notify BTCPOWER Training in advance.

<b>Regular 50kW</b> <ul style="list-style-type: none"><li>A. Specifications</li><li>B. 208V &amp; 480V</li><li>C. Anatomy</li><li>D. Component Maintenance Schedule</li></ul> <b><u>ONLY covered by Special request and when a private class is purchased.</u></b>	<ul style="list-style-type: none"><li>38. Voltage Check</li><li>39. Removing Residual Power When a Fuse is Blown</li><li>40. Upper Fan Access</li><li>41. CHAdeMO Cable Replacement</li><li>42. Power Supply Test</li></ul>
<b>Slim 50kW</b> <ul style="list-style-type: none"><li>A. Specifications</li><li>B. 208V &amp; 480V</li><li>C. Anatomy</li><li>D. Component Maintenance Schedule</li></ul> <b><u>ONLY covered by Special request and when a private class is purchased.</u></b>	<ul style="list-style-type: none"><li>43. Transformer &amp; Inductor Access</li><li>44. Counterweight Paracord Access</li></ul>



# BTC POWER TRAINING GUIDELINES

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## PAYMENT POLICIES & CONDITIONS

Payment is required at least four weeks in advance of training. Failure to pay in advance will forfeit your registration.

- Payment may be made by check, wire transfer, ACH, or credit card.
  - If paying by credit card, there is a 3% processing fee.
  - Credit card information must be provided at the time of registration.
    - If no payment is received by the payment due date, the credit card will be charged.
  - Class seats are reserved once payment is processed
- Cancellation/Rescheduling Terms:
  - Registration for classes may be cancelled four weeks prior to the date of training, without cancellation fees.
  - If the class has been prepaid, you may:
    - receive a full refund, or
    - reschedule for a future class
  - Cancellations **with greater than two** weeks' notice from the first day of training will forfeit 50% of the fee.
    - The remaining 50% balance of the prepayment may be applied to a future class or refunded.
  - Cancellations within two weeks of the first day of training are non-refundable and registration will be forfeited.

## CLASS SEAT RESERVATIONS

Class seats are reserved once all required forms are submitted and payment has been arranged.

## CLASS START & END TIMES

Class runs from 8AM to 5PM.

## DRESS CODE

Dress appropriately for working on AC and DC chargers. **Electrical Hazard rated safety toe footwear and safety glasses are required.**

## LUNCH

Lunch is provided during all three days of technician training.

## MANUALS

Product guides for our chargers are provided to each student. Bring a backpack to carry all the resources home.

## CERTIFICATES

Each student is provided with access to print a certificate of completion from the BTC POWER Academy identifying the expiration date of their certification.

# **BTC POWER TRAINING GUIDELINES**

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## **CERTIFICATION DURATION**

Your certification to work on BTC POWER chargers is effective for two years. The start of certification for live training is completion of the last day of class. Certification for those who take online training expires 2 years and 5 days after the enrollment date. The options for renewal of your certification are:

## **CONTINUING EDUCATION & RECERTIFICATION**

1. If you haven't taken the online training prior, complete the online modules \$250\* plus tax.
2. Retake the instructor led training course \$2250\* plus tax. Advisable if you are unfamiliar with the latest BTC POWER chargers.

\* Prices subject to change.

## **ACCESS TO BTC POWER TECHNICAL DOCUMENTATION**

BTC POWER certified technicians are provided access to BTC POWER online technical documentation for the period they are certified (2-years). After 2-years and a 3-month grace period, if you have not renewed your training, access to BTC POWER online technical documentation will be revoked.

## **ACCESS TO BTC POWER TECHNICAL PHONE SUPPORT**

BTC POWER certified technicians are provided with access to BTC POWER technical phone support for the period they are certified (2-years). After 2-years and a 3-month grace period, if you have not renewed your training, access to BTC POWER technical support may be withdrawn.