BTC POWER

TECHNICIAN CERTIFICATION COURSE

The BTC Power Technician Certification Course consists of an 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

OR

$12,000 for a Private Class, up to 6 attendees

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

Reach out to your BTC Power point of contact for availability.

BTC POWER TRAINING GUIDELINES

Contents

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. Basic hand tool use.
3. Torque wrench use.
4. Meter setting for AC/DC Voltage and continuity.
    a. Fluke offers an online course that covers these meter settings and use.
5. We require a sign-off from your present supervisor or manager that you meet all these criteria.

BTC POWER TRAINING GUIDELINES

TRAINING LOCATION

ADDRESS: BTC Power
               1717 S Grand Ave
               Santa Ana, CA 92705
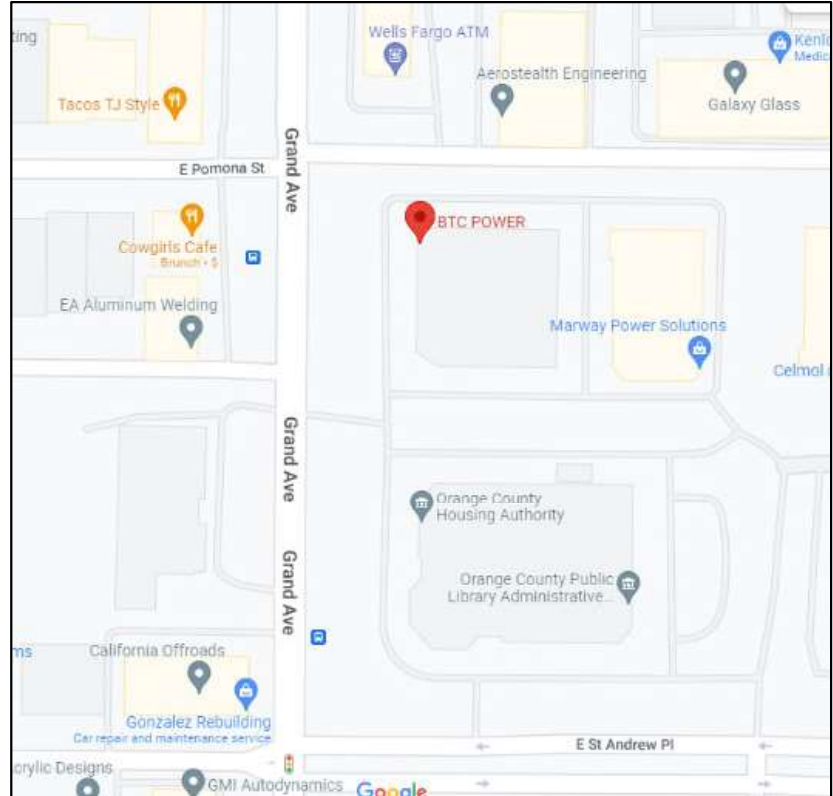
PAYMENT POLICIES & CONDITIONS

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.

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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	ADDRESS	PHONE	WEBSITE
Residence Inn by Marriott	15181 Newport Ave Tustin CA 92780	714-258-9700	Residence Inn by Marriott Tustin Orange County - Google hotels
Fairfield Inn and Suites by Marriott	15011 Newport Ave Tustin, CA 92780	714-258-9900	Hotel near Santa Ana, CA | Fairfield Inn & Suites Tustin Orange County (marriott.com)
Embassy Suites by Hilton	1325 E. Dyer Road Santa Ana, CA 92705	714-241-3800	Embassy Suites by Hilton Santa Ana Orange County Airport - Google hotels

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 shoes are recommended.

LUNCH
Lunch is provided during all three days of technician training.

MANUALS
Field guides for our chargers are provided to each student. Students are also provided electronic access to BTC Power charger service information.

CERTIFICATES
Each student is provided with a personalized certificate of completion identifying the expiration date of their certification.

BTC POWER TRAINING GUIDELINES

3-DAY TECHNICIAN TRAINING OUTLINE

DAY	TOPICS	HANDS-ON

Day 1 Introduction & AC Level 2	A. Introduction to EV Charging & BTC Power Chargers
	B. Safety Review
	C. Review required service tools and equipment
	D. Case Management
	E. Documentation
	F. Level 2 Chargers
	    a. Specifications
	    b. Theory of Operation
	    c. Commissioning
	    d. Troubleshooting
		1. Tour of the BTC Power Facility and Product Line
		2. Documentation Access
		3. Voltage Check
		4. Charge Cable Remove & Install
		5. Display Replacement

Day 2 DC Level 3	Regular A. Specifications B. 208V & 480V C. Anatomy D. Component Maintenance Schedule	6. Voltage Check 7. Removing Residual Power When a Fuse is Blown 8. Upper Fan Access 9. CHAdeMO Cable Replacement 10. Power Supply Test
	Slim A. Specifications B. 208V & 480V C. Anatomy D. Component Maintenance Schedule	11. Transformer & Inductor Access 12. Counterweight Paracord Access
	HPC Distributed Chargers (Gen2) A. Specifications B. Anatomy C. Charge Strategies D. Component Maintenance Schedule E. MCU's & Thermistor Landings & Settings F. Safety Relay Operation G. Power Module Anatomy H. Commissioning Issues	Tower 13. MCU 4.3 Dip Switch Settings 14. Fan Testing and Override 15. Air Filter Access 16. CAN Bypass for Testing 17. Voltage Check 18. Power Module Address Setting 19. Power Module Rebuild 20. Torque Wrench Use Dispenser 21. MCU Thermistor Landings, Jumpers, and Dip Switch Settings 22. SECC Replacement & Settings 23. Liquid Cooled Pump Manual Override 24. MCU Hex Code Programming 25. A full commissioning of a tower and dispenser

BTC POWER TRAINING GUIDELINES

Day 2 DC Level 3 Continued	100kW All In One A. Overview	HPC Comparison
	VOLTA A. Overview _ONLY for technicians that work on Volta._	26. Address Setting on Superboard 1.0
Day 3 DC Level 3 GEN 4	360kW Distributed Charger A. Specifications B. Anatomy C. Charge Strategies D. Safety Operation E. Commissioning Issues	Tower 4.0/4.1 27. Power Module Remove & Install 28. Control Box Access 29. Air Filter Access Dispenser 30. IMD Programming 31. Meter Programming 32. Air Filter Access
	180kW All In One 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