DC System Stratron Battery and Charger Training Course

Professional Development Training Course Outline

Category	Development	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s technology-driven and energy-dependent industries, reliable power backup solutions are critical. Training Course on DC System Stratron Battery and Charger Training Course serve as the backbone for essential systems in sectors like telecommunications, data centers, power utilities, and industrial automation. This comprehensive training course is designed to equip participants with in-depth technical knowledge, practical skills, and diagnostic capabilities for the efficient operation, maintenance, and troubleshooting of Stratron battery systems and chargers.

This training will explore everything from battery technology fundamentals to charging cycles, power distribution, battery management systems (BMS), and preventive maintenance strategies. Designed for both beginners and seasoned professionals, this course emphasizes real-world applications, system reliability, power continuity, and energy efficiency, ensuring your team stays ahead in today’s competitive, power-critical landscape.

Programme Curriculum

DC System Stratron Battery and Charger Training Course

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Course Objectives

1. Understand the fundamentals of DC power systems and battery technologies.
2. Identify key components and functionalities of Stratron DC battery systems.
3. Learn about battery charging cycles, stages, and smart charging algorithms.
4. Analyze voltage regulation, load distribution, and system balancing.
5. Understand how to perform preventive and corrective maintenance on DC systems.
6. Interpret diagnostic codes and conduct fault analysis for quick troubleshooting.
7. Understand power redundancy and failover systems in critical operations.
8. Perform battery load testing and efficiency optimization.
9. Implement safety protocols, handling, and risk mitigation techniques.
10. Monitor and analyze system performance using real-time monitoring tools.
11. Learn integration practices with SCADA systems and remote monitoring software.
12. Understand sustainability practices and environmental impacts of batteries.
13. Gain hands-on experience with Stratron Battery Charger programming and setup.

Target Audience

1. Electrical Engineers
2. Power System Technicians
3. Data Center Operators
4. Facility Maintenance Teams
5. Energy Consultants
6. SCADA Integrators
7. UPS System Specialists
8. Renewable Energy Professionals

Course Duration: 5 days

Course Modules

Module 1: DC System Fundamentals

- Introduction to Direct Current Systems
- Role of DC Systems in Critical Infrastructure
- Key Terms and Technical Vocabulary
- Voltage, Current, and Resistance Principles

- Understanding Load Demand in DC Networks

Module 2: Stratron Battery System Overview

- Stratron Battery Architecture and Design
- Battery Types and Applications
- System Voltage and Amp-Hour Ratings
- Configuration (Series/Parallel) Setups
- Manufacturer Specifications & Guidelines

Module 3: Charging Systems and Technology

- Charger Hardware Components
- Smart Charging Algorithms
- Float vs Boost Charging Modes
- Voltage Regulation and Ripple Control
- Monitoring Charging Current and Voltage

Module 4: Preventive Maintenance and Inspection

- Daily/Weekly/Monthly Maintenance Schedules
- Battery Health Indicators
- Terminal Cleaning and Corrosion Prevention
- Visual Inspections and Reports
- Load Testing Procedures

Module 5: Troubleshooting and Fault Resolution

- Recognizing Common Error Codes
- Troubleshooting Tools and Meters
- Diagnosing Overheating or Short Circuits
- Replacing Faulty Components
- Emergency Shutdown and Restart Procedures

Module 6: Power Efficiency and Redundancy

- Optimizing Load Distribution
- Energy Storage Best Practices
- Battery Efficiency Metrics
- Designing for Redundancy and Failover
- Minimizing System Downtime

Module 7: Integration with SCADA and Remote Systems

- Overview of SCADA and IoT Integration
- Configuring Communication Protocols (Modbus, SNMP)
- Remote Monitoring Setup
- Alert and Notification Management
- Data Logging and Trend Analysis

Module 8: Safety and Environmental Considerations

- Safe Battery Handling Procedures
- Spill and Leak Management
- Compliance with OSHA and EPA Regulations
- Battery Recycling and Disposal
- Risk Mitigation in Confined Spaces

Training Methodology

- Hands-on demonstrations
- Case studies
- Live simulations
- Group exercises
- Instructor-led sessions
- Downloadable technical manuals will ensure a practical and immersive learning experience.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com