GIS Server Administration 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 high-demand digital and energy environments, mastering DC system operations, Stratron battery management, and GIS server administration is critical for maintaining uninterrupted power and data flow in mission-critical infrastructures. GIS Server Administration Training Course offers in-depth expertise in battery charging protocols, server configurations, power backup systems, and data center integration. Learners will explore both theoretical concepts and hands-on skills required to manage and optimize DC power systems and server environments in industries like telecom, power distribution, and IT services.

Whether you're an IT professional, electrical engineer, or infrastructure technician, this training provides the tools to ensure optimal performance, safety compliance, and operational efficiency. The course emphasizes system health diagnostics, real-time server monitoring, preventive maintenance, and secure data protocols. Designed with trending tools and best practices, this training is aligned with current technological standards and sustainability goals.

Programme Curriculum

GIS Server Administration Training Course

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Course Objectives

1. Understand Stratron battery configuration and DC system architecture
2. Learn battery charging algorithms and safety protocols
3. Configure and maintain GIS servers for real-time data delivery
4. Apply energy efficiency practices in DC systems
5. Execute preventive and corrective maintenance on battery systems
6. Master backup power solutions and load balancing techniques
7. Monitor server uptime, performance, and data integrity
8. Integrate smart charging technology into energy systems
9. Troubleshoot Stratron hardware and firmware issues
10. Deploy and administer secure GIS environments
11. Understand SCADA integration with GIS and DC systems
12. Analyze battery lifecycle, discharge patterns, and recovery strategies
13. Ensure compliance with global power safety standards

Target Audience

1. Power System Engineers
2. IT Infrastructure Managers
3. Data Center Technicians
4. Electrical Maintenance Staff
5. SCADA & Automation Engineers
6. GIS System Administrators
7. Renewable Energy Professionals
8. Telecom Infrastructure Specialists

Course Duration: 5 days

Course Modules

Module 1: DC System Fundamentals

- Principles of DC Power

- Energy Flow & Conversion
- System Component Functions
- Voltage Regulation Techniques
- Environmental Considerations

Module 2: Stratron Battery Systems

- Battery Technology Overview
- Stratron Battery Features
- Charging & Discharging Profiles
- Battery Monitoring Systems
- Maintenance Scheduling

Module 3: Battery Charger Configuration

- Charger Types & Modes
- Installation Best Practices
- Troubleshooting Charger Errors
- Voltage & Current Calibration
- Auto-Cutoff Mechanisms

Module 4: GIS Server Administration

- GIS Architecture & Roles
- Data Hosting & Access Control
- Server Virtualization
- Security Protocols
- Data Layer Management

Module 5: System Monitoring & Diagnostics

- Real-Time Monitoring Tools
- Alarm Management
- Predictive Failure Analysis
- Remote Access Tools
- Server & Battery Logs

Module 6: Energy Efficiency & Backup Planning

- Power Usage Analysis
- Load Forecasting
- Renewable Integration
- UPS & Inverter Setup
- Load Shedding Strategies

Module 7: Cybersecurity & Compliance

- Risk Assessment Techniques
- Cybersecurity Policies

- Data Encryption Practices
- User Role Management
- Compliance Certifications

Module 8: Integrated SCADA & IoT Systems

- IoT Integration for Batteries
- SCADA Dashboard Setup
- Sensor Data Interpretation
- Event Automation
- Smart Alerts & Analytics

Training Methodology

- Interactive lectures
- Live demonstrations
- Hands-on labs
- Case studies
- Assessment quizzes to ensure holistic learning
- Real-world simulations

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