

# DC POWER TRAINING

Knowledge is power. And when it comes to actual power, knowledge can mean the difference between a properly installed, maintained, and operating power system and unplanned downtime. Whether your team needs a tune-up on DC power essentials or advanced training on the newest power systems (including controllers), OmniOn Power's team of experts is ready to share their power design and deployment knowledge with your organization.

At the core of every OmniOn Power training course is our decades-long commitment to tackling the toughest power challenges across data center, telecommunications, and industrial power applications as well as our longstanding leadership and innovation in DC power systems.

OmniOn Power's services training team has assembled a custom combination of teaching facilities and formats to fit your specific needs, including hands-on OmniOn training labs and on-site training programs at customer facilities. Regardless of which training approach you require, the experience will help keep your installation and operations teams up to date on the latest technologies and techniques to deliver optimum power efficiency and boost the return on investment (ROI) of your power system.



## **HANDS-ON LAB TRAINING ON OMNION DC POWER EQUIPMENT: Learning by Doing**

- Learn with an optimal combination of classroom instruction and hands-on training.
- Work at labs equipped with latest OmniOn DC power equipment and custom testing and programming tools.
- Available at training facilities in OmniOn's Plano, TX and Hunt Valley, MD service centers.



## **ON-SITE INSTRUCTION: Delivering Our Training and Tools to Your Team**

- Bring OmniOn's training courses and expertise to your team and field service partners.
- Train on your existing equipment or new, pre-installation systems. If preferred, OmniOn can ship equipment and training tools to any of your locations.
- Scale new deployments faster by training teams on off-network equipment prior to final installation.
- Integrate OmniOn's learning programs into your scheduled technology and sales training programs.

# OmniOn Power Courses

## DC ENGINEERING FUNDAMENTALS

One-day course

**What You Will Learn:** This course is designed to cover general DC system components, calculations for selecting the number of rectifiers and batteries required for a power system, and how to determine the voltage drops in a DC distribution network.

It also covers how to calculate DC wire sizes and determine the proper protector size for a DC circuit. Eco Priority Source, Active Rectifier Management, and Total Efficiency concepts will also be discussed.

**Who Should Attend:** DC power engineers, supervisors, installers, maintenance, and operations personnel.

**Prerequisites:** Working knowledge of basic electricity and electronic concepts. Must be able to read and understand schematic drawings.

## GALAXY POWER SYSTEM - GPS4848, GPS4830 OR GPS4827

One-day course

**What You Will Learn:** This course covers the functions, physical features, and components of the Galaxy power system product line.

Terminology and component functions will also be covered. Modular components such as the system controller, switch-mode rectifiers, low-voltage load disconnect, battery connection module, and distribution will be discussed.

**Who Should Attend:** DC power engineers, supervisors, installers, maintenance, and operations personnel.

**Prerequisites:** Working knowledge of basic electricity and electronic concepts. Must be able to read and understand schematic drawings.

The Millennium II Controller course should be taken along with this course.

## INFINITY DC POWER SYSTEMS

Half-day course

**What You Will Learn:** This course covers the functions, features, and procedures for installing, maintaining and operating Infinity power systems. It is designed to provide students with instruction and allow for hands-on practice to perform routine maintenance and troubleshooting analysis.

**Who Should Attend:** DC power engineers, supervisors, installers, maintenance, and operations personnel.

**Prerequisites:** Working knowledge of basic electricity and electronic concepts. Must be able to read and understand schematic drawings.

## INFINITY INSTALLATION REQUIREMENTS AND STANDARDS FOR VERIZON WIRELESS

One-day course

**What You Will Learn:** This course provides the installation requirements and standards for installing, maintaining, and operating Infinity power systems within a Verizon Wireless cell site. It is designed to provide students with instruction and hands-on practice to help them install and perform routine maintenance and troubleshooting analysis.

**Who Should Attend:** DC power engineers, supervisors, installers, maintenance, and operations personnel.

**Prerequisites:** Working knowledge of basic electricity and electronic concepts. Must be able to read and understand schematic drawings.

## MILLENNIUM II CONTROLLER

One-day course

**What You Will Learn:** This course covers a broad scope of the functions and physical features of the Galaxy Millennium II Controller, with an emphasis on engineering.

The Millennium II controller is used in several of our power systems. It has many functions and features typically used in large central office power systems, including remote monitoring and remote access.

This instruction is meant to assist in the initial installation and start-up of the controller and supplements the product documentation provided with it.

**Who Should Attend:** DC power engineers, supervisors, installers, maintenance, and operations personnel.

**Prerequisites:** Working knowledge of basic electricity and electronic concepts. Must be able to read and understand schematic drawings.

Computer skills and familiarity with Windows OS is necessary.

## PULSAR PLUS CONTROLLER

Half-day course

**What You Will Learn:** This course is designed to provide an overview of the basic configuration procedure for the Pulsar Plus controller.

The Pulsar Plus controller is used in several of our power systems. It includes some of the functions and features typically only found in large central office power systems, like remote access, but in a smaller feature set.

This instruction is meant to assist in the initial installation and start-up of the power system and supplements the product documentation provided with it.

**Who Should Attend:** DC power engineers, supervisors, installers, maintenance, and operations personnel.

**Prerequisites:** Working knowledge of basic electricity and electronic concepts. Must be able to read and understand schematic drawings.

Computer skills and familiarity with Windows OS is necessary.



### Technical Support: Expediting Action

Whether you're looking for a rapid repair, have a technical question, or need to obtain OEM product support, our technical support team is a single call away. Our team of experts is here to help you with your needs 24/7, 365 days a year.

1.877.546.3243 | [techsupport@omnionpower.com](mailto:techsupport@omnionpower.com) | [www.omnionpower.com](http://www.omnionpower.com)



### HANDS-ON, INSTRUCTOR-LED COURSES: Learning at Every Level

These robust OmniOn training sessions can guide your team across every phase of power system deployment and operations. Courses include:

- Power System Fundamentals.
- OmniOn DC Power Products and Systems Overviews and In-Depth Guides.
- Controller Configuration.
- Battery Basics.
- Basic Installation.
- Alarm Configurations.
- Testing and Certification.

#### INDUSTRIAL DC BATTERY CHARGER TRAINING

2-hour course

**What You Will Learn:** This course is designed to provide a thorough understanding of the Integritas Industrial DC Battery Charger. It covers proper installation, load terminations, power module installation, and configurations.

**Who Should Attend:** Utility substation, switchgear control centers, pumping stations, and other motor operation facility power technicians, maintenance, and operations personnel and their supervisors.

Also, engineers and engineering supervisors responsible for engineering, installing, and maintaining Industrial DC Battery Chargers.

**Prerequisites:** Working knowledge of basic electricity and electronic concepts. Must be able to read and understand schematic drawings.

Computer skills and familiarity with Windows OS is necessary.

#### EDGE DISTRIBUTED DATA CENTER POWER ARCHITECTURE TRAINING

Half day course

**What You Will Learn:** This course is designed to provide a thorough understanding of the Edge Distributed Power Architecture. It covers proper installation, cable preparation, load terminations, power module installation, and system configurations.

**Who Should Attend:** DC power engineers, supervisors, installers, maintenance, and operations personnel.

**Prerequisites:** Working knowledge of basic electricity and electronic concepts. Must be able to read and understand schematic drawings.

Computer skills and familiarity with Windows OS is necessary.

#### TELECOMMUNICATIONS GROUNDING

One-day course

**What You Will Learn:** This course is designed to provide an understanding of proper grounding that will help prevent personal injury, service outages, noise, and equipment damage. The course shows methods and materials used to ground telephone equipment from cell sites to central offices.

**Who Should Attend:** Installers and maintenance personnel who do the hands-on work on telephone facility grounding systems, those who supervise such work, and anyone interested in this subject.

**Prerequisites:** Working knowledge of basic electricity and electronic concepts.

