



SIEMENS

www.bootsontheroof.com/siemens

Siemens Microinverter 5-Day Intensive Solar Training Program

What will you learn?

Siemens Microinverter Systems offer you advantages in installation time, energy production, safety, remote monitoring, and reliability. This 5-day course uses an engaging blend of hands-on labs, instructor-led training, and computer-based software labs to teach the main concept installers need to know to sell, design, and install the Siemens Microinverter based solar energy systems. Principal topics include site surveys, microinverter system design, installation, monitoring, financial calculations and sales. The hands-on labs are tailor-made to teach installation of Siemens Microinverter Systems in a realistic rooftop setting.

Who is it for?

This event is for those adding Siemens Microinverter Systems to their service offerings.

The course is optimized for:

- Licensed Electricians
- Sales and Business Professionals
- Engineers and Consultants
- Construction Managers and General Contractors

This course is not intended for homeowners and other solar enthusiasts.

What's included?

Your tuition fee includes instruction, materials, labs and catered lunch each day.

Enrollment information is transmitted electronically to Siemens, but please note that attendance in the course does not guarantee an opportunity to buy or distribute the Microinverter System.



What if you're not local?

Through our training partner, Boots on the Roof, you can purchase a travel package including hotel suite, complimentary breakfast, and free shuttle transportation from/to the San Jose, California airport (SJC).

To learn more or sign-up today, please visit:

www.bootsontheroof.com/siemens/

or call 1-800-241-4453

Please note: Due to the hands on nature of the course, class sizes are extremely limited.

Course Topics

Renewable Energy Overview

Photovoltaic system components

- Modules, strings, arrays, & combiner boxes
- Overview of compatible modules

Inverters

- New Siemens Microinverter System
- Commercial scale Sinvert Inverter system
- Inverter basic principles of operation

From solar radiation to electricity

- Power in sunlight - the sun-earth relationship, irradiance & irradiation
- Solar array orientation and performance
- Photovoltaics, electricity, and wiring

Safety practices and precautions

- Safety practices for roofs, ladders, personal safety equipment
- Electrical safety

Site survey

- Shading, PV array placement
- Roof inspection
- Utility interconnection locations
- Staging considerations

PV system installation

- Racking and array mounting systems
- Voltage & current requirements, conductors, wiring methods
- Grounding & lightning protection
- PV Panel and microinverter installation

Monitoring and Troubleshooting

- Hardware installation
- Commissioning monitoring equipment

System sizing

- Selecting the size of the PV system
- Design Considerations, load requirements, array configuration, planning design & setbacks

Permitting and Inspection

- Building permits, electrical safety, correct cabling, mechanical integrity, & proper equipment labeling

Utility interconnection

- Distributed generation
- Interconnection codes, point of connections, circuit breakers, labeling, & net-metering
- Interconnection policies

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