



## **2 Day PV Systems Design Workshop**

This course teaches design techniques to attendees. Students are introduced to National Electric Code US and Canadian Electrical Code to design Solar PV systems. Workshop is designed to provide attendees with the sizing and design of central, string and micro inverter based systems. In addition, workshop also teaches sizing off-grid PV system sizing.

### **Course Details:**

#### **Day-1: 9:30AM – 5:30PM (Hands-on Practical)**

- Feasibility, Modeling, and AHJ requirements & Approvals
- PV system components certifications & code
- Electrical & PV systems concepts/terminology
- Introduction to Canadian Electrical Code (CEC) & National Electric Code (NEC)
- PV specific CEC & NEC
- 10 kW PV systems sizing Hands-on calculations
- 10 kW PV systems code compliant design hands-on calculations

#### **Day-2: 9-30 – 5:30PM (Hands-on Practical)**

- Central Inverter PV system design Hands-on calculations
- String Inverter PV system design Hands-on calculations
- Micro Inverter PV system design Hands-on calculations
- Off-Grid PV system design Hands-on calculations
- Optimization (Sizing, Shade, Losses & Cost)
- Comparison (600V vs 1000V & Central, String & Micro Inverters PV systems)

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