

PV 101 Sustainability Professional Development Course

Contact Hours: 40 hrs.

Louisiana Solar Energy Lab



Course Description:

Sustainability Professional Development Course- PV 101

PV 101 is your first step to start a career in the solar industry. The participant will start learning the basic concepts in photovoltaic modules and will get an understanding of their components, system architecture and applications for PV systems. During the class we will discuss other topics including site analysis, system sizing, array configuration and performance estimation. The participant will also learn basic concepts of electrical design characteristics such as wiring, overcurrent protection, and grounding. The training includes a detailed look at module and inverter specifications and characteristics; mounting methods for various roof structures and ground mounts; and an introduction to safely and effectively commissioning grid-direct PV systems. This course focuses on grid-direct PV systems, the largest and fastest growing segment of the PV industry but covers material critical to understanding all types of PV systems.

Who can attend?

This course is focused on technicians, field managers, renewable energy professionals, owners, engineers and other people interested in enhancing their understanding of renewable energy. The course is available in both English and Spanish. The course is introductory training for those new to the field, also for those who are looking to make a career change.

Topics:

- Intro to Renewable Energy
- Components and System Configuration
- Basics of Electricity
- Demand and PV Production
- PV Modules
- Meter testing, Series and Parallel
- Site Analysis and Solar Resource

What you get from this Course:

- Identify the different components of PV systems and their functions
- Distinguish between systems that provide DC and/or AC power, and recognize their differences
- Explain the relationship between volts, amps, amp-hours, watts, watt-hours, and kilowatt-hours
- Perform power and energy calculations
- Describe typical electrical service voltages and equipment
- Examine power, energy, and demand / production curves
- Define utility bill terminology
- Describe PV metering options

How can I attend this course?

For more information about this course, please contact: lilliam.norat-david1@louisiana.edu

Click on this link to request a scholarship for this course: <https://forms.office.com/r/uxZnsPYWgU>

Energy Efficiency and
Sustainability Professional
Development Courses Intake Form



Use this QR code to fill out the
application for enrollment