



Aboriginal Peoples Training and Employment Commission

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Introduction to Solar PV Systems & Solar PV System Design

Location: Online

Pre-requisite: This course requires WHMIS which will be provided online and asynchronous, and will be open self-paced in advance.

Schedule

SOLA100M: 1:00PM-5:00PM on the dates of November 10th-13th, 2025.

SOLA105M: 1:00PM-5:00PM on the dates of November 17th-21st, 2025.

Overview

This two-part training provides the knowledge and skills needed to understand and design solar photovoltaic (PV) systems. Participants will learn how solar energy is converted into electricity, how to assess a property for solar potential, and how to select and design the right PV system.

Part 1: Introduction to Solar PV Systems

Learn the science and operation of solar energy systems, including:

- How solar panels convert sunlight into electricity
- Basic electrical concepts related to solar PV performance
- How solar PV panels and systems operate
- Types of solar PV components and their applications

Part 2: Introduction to Solar PV System Design

Build practical skills to design solar PV systems, including:

- Understanding the design and performance features of different PV systems
- Using software to model system size and performance potential
- Reading and interpreting manufacturer data sheets, manuals, and warranties
- Conducting site assessments to confirm system viability



Funded in part by the
Government of Canada's
Skills and Partnership Fund

