

# Electrical Level 2

## **Alternating Current (Module ID 26201-20)**

Describes AC circuits and explains how to apply Ohm's law to solve for unknown circuit values.

## **Motors: Theory and Application (Module ID 26202-20)**

Covers AC and DC motors, including the main components, circuits, and connections.

## **Electric Lighting (Module ID 26203-20)**

Introduces the principles of human vision and the characteristics of light. Covers different types of light sources and the operating characteristics and installation requirements of various lighting fixtures.

## **Conduit Bending (Module ID 26204-20)**

Describes how to make conduit bends using mechanical, hydraulic, and electric benders.

## **Pull and Junction Boxes (Module ID 26205-20)**

Explains how to size and install pull and junction boxes. Identifies various specialty enclosures, including conduit bodies, FS and FD boxes, and handholes.

## **Conductor Installations (Module ID 26206-20)**

Describes how to prepare conduit for conductors. Explains how to set up and complete a cablepulling operation.

## **Cable Tray (Module ID 26207-20)**

Discusses various types of cable tray, supports, and associated fittings. Explains how to determine the loads on a cable tray and calculate fill per NEC® requirements.

## **Conductor Terminations and Splices (Module ID 26208-20)**

Explains how to prepare cable ends for terminations and splices. Describes how to train cable at termination points and describes crimping techniques.

## **Grounding and Bonding (Module ID 26209-20)**

Explains the grounding and bonding requirements of NEC Article 250. Covers how to size the main and system bonding jumpers and the grounding electrode conductor for various AC systems.

## **Circuit Breakers and Fuses (Module ID 26210-20)**

Describes the operating principles of circuit breakers and fuses and explains how to select and install overcurrent devices.

## **Control Systems and Fundamental Concepts (Module ID 26211-20)**

Describes the operating principles of contactors and relays, including both mechanical and solid-state devices. Explains how to select and install relays and troubleshoot control circuits.