

Corporate Office

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Fundamentals of DC Electronics, Sensors and Instrumentation

Course Description: This course reviews electrical safety and theory, DC fundamentals, how transistors function, and their use in proximity sensors and instrumentation. Students will learn how to use different types of sensors and positioners. Rotary sensor applications with hands-on exercises will be completed.

Prerequisites: None

Textbook: CFC-Solar Binder

Learning Objectives:

- Review of electrical safety and theory
- Introduction to semi-conductor theory
- Integrated circuits
- Linear position sensors
 - Mechanical switches
 - Non-contact switches
 - Photo sensors
 - Proportional position
- Rotary sensors
 - Pulse pickups
 - DC tachometers
 - Encoders
- Pressure sensors