

Course Objectives/Course Outline
Spokane Community College

Course Title: **Wiring Techniques**

Prefix and Course Number: **ELMT 263**

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Describe the basic building structures
- Apply electrical installation techniques to various systems
- Describe the electrical code requirements and inspections
- Explain the materials and their appropriate applications

Course Outline:

- I. Building Structures
 - A. Wood Structures
 - B. Concrete Block Structures
 - C. Metal Framed Structures
- II. Job Organization
 - A. Manpower
 - 1. working with other trades
 - 2. contract or job scope
 - 3. job specifications
 - B. Priorities During Installation
 - 1. temporary service
 - 2. Conduit Layout
 - 3. conduit supports
 - 4. main service
 - 5. inspections
- III. Materials Estimations
 - A. Types of Materials
 - B. Code Requirements
 - C. Contract Specifications
 - D. Ordering Materials
 - 1. amount
 - 2. suppliers
 - 3. cost
 - 4. availability
- IV. Updating Systems
 - A. Adding Circuits
 - 1. exposed work
 - 2. concealed work