

Course Objectives/Course Outline
Spokane Community College

Course Title: Line Construction III

Prefix and Course Number: LINE 103

Course Learning Outcomes:

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

- Interpret job prints and standards
- Practice safe overhead and underground construction methods
- Utilize established radio communication practices

Course Outline:

- I. Advanced Electrical Concepts
 - A. AC Theory
 - B. Vectoring
 - C. Capacitors
 - D. Inductors
 - E. Capacitive Reactants
 - F. Inductive Reactants
 - G. Trigonometry
 - H. 3-Phase AC Circuits
 - I. Meters
- II. Advanced Practical Applications
 - A. Traffic Control
 - B. Grounding
 - C. Bucket Truck Operations
 - D. Field Trips
 - E. Underground Constructions
- III. Advanced Communications
 - A. Mock Interviews
 - B. Resume Writing
- IV. Characteristics and Hazards of Natural Gas
 - A. Flammability Range
 - B. Mixture of Gas and Air
 - C. Molecular Makeup
 - D. Gas Migration
 - E. Potential Ignition Sources

- V. Flagger Certification
 - A. Traffic Control
 - B. Hand Signals
- VI. Practical Applications/Gas Safety
 - A. Backhoe Operation
 - B. Installing Gas Lines
 - C. Excavation and Shoring
 - D. Soil Classification and Identification
 - E. Introduction to Firefighting Techniques