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