Print Date: 8/8/14 Course Objectives/Course Outline Spokane Community College

 Course Title:
 Line Construction I

 Prefix and Course Number:
 LINE 101

 Course Learning Outcomes:
 Line Construction I

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

 Practice appropriate safety measures in the field

 Transport, erect and climb electrical poles

- Apply basic principles of electricity
- Operate a variety of equipment

Course Outline:

- I. Climbing Basics
 - A. WA State Code-WAC 45
 - B. Safety
 - C. Rules
 - D. Personal Protective Gear
- II. Knots
 - A. Square
 - B. Sheet Bend
 - C. ½"
 - D. Double 1/2"
 - E. Timber Hitch
- III. Poles
 - A. Test and Treat
 - B. Cross Arms
 - C. Headlines
 - D. Cutting Gains
- IV. PC Basics
 - A. Fundamentals of Electricity
 - B. Robes and Knots
 - C. Tools and Rigging
- V. Electricity Principles
 - A. Climbing Basics
 - B. Heavy Arms
 - C. Double Arms
 - D. Ohm's Law
 - E. Series/parallel Circuits
 - F. Combination Circuits
- VI. Materials Familiarization
 - A. CDL Principles (Drivers)
 - B. Knots
 - C. Bowline
 - D. Running Bowline
 - E. Sheep Shank
 - F. Dove Hitch
 - G. Trucker's Hitch
- VII. Overhead construction Boots

- A. Climbing
- B. Materials
- C. Tools and Equipment
- D. Working with Electricity
- VIII. CPR and First Aid
 - A. Card Certification
- IX. Practical Applications
 - A. Hoists
 - B. Rips
 - C. Wires
 - D. Sleeves
 - E. Dead-ending Wire
 - F. Transfer Wire
 - G. Tools and Equipment
 - H. Digging Holes