

**SOUTHEAST COMMUNITY COLLEGE**  
**ADVANCED TECHNOLOGIES AND SKILLED TRADES DIVISION**  
**Utility Line Worker Program**  
**Revision Date: November 2025**

**I. CATALOG DESCRIPTION**

**Course Number:** UTIL 1140  
**Course Title:** Line Construction II  
**Prerequisite(s):** UTIL 1030 with a "C" or higher

**Catalog Description:** Advanced study of the equipment, materials, and specifications used in the construction of electrical distribution systems. Emphasis is placed on proper, safe, and advanced climbing techniques as applied to complex line construction. Students apply classroom knowledge of single-phase and three-phase line construction through hands-on laboratory activities that include pole setting, hardware installation, guying and anchoring, working with underground primary and secondary systems, conductor installation, and single-phase transformer installation.

**Credit Hours:** 6.0  
**Class Hours:** 45  
**Lab Hours:** 135  
**Total Contact Hours:** 180

**II. COURSE OBJECTIVES:** *Course will:*

- A. Provide students with advanced knowledge of materials, tools, and procedures used in constructing and maintaining overhead and underground electrical distribution systems.
- B. Emphasize safety practices and advanced climbing techniques required for complex line construction tasks.
- C. Develop students' skills in planning, constructing, and maintaining single- and three-phase distribution systems.
- D. Reinforce the importance of teamwork, communication, and adherence to industry standards in field operations.
- E. Offer extensive hands-on laboratory experience in the application of classroom theory to real-world construction scenarios.

**III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES**

**A. Student Learning Outcomes:** *Student will be able to:*

- 1. Demonstrate advanced pole-climbing techniques and safe work positioning for complex line construction tasks.
- 2. Properly set poles and install related hardware, anchors, and guys according to specifications.
- 3. Construct and maintain single-phase and three-phase overhead distribution systems following industry standards.
- 4. Install, connect, and test single-phase transformers as part of a distribution circuit.
- 5. Identify components and correctly install underground primary and secondary systems.
- 6. Apply correct procedures for conductor installation, tensioning, and sagging.
- 7. Work effectively as part of a crew, demonstrating professional communication, safety awareness, and task coordination.

8. Interpret construction specifications, drawings, and work orders to plan and complete assigned projects.

**B. General Education Learning Outcomes**

1. GELO #3: Critical Thinking and Problem Solving
  - a. Outcome #1: Collect, identify, interpret, and analyze data.

**IV. CONTENT/TOPICAL OUTLINE (*course outline may provide more detailed information*)**

**A. TBD**

- 1.

**V. INSTRUCTIONAL MATERIALS**

**A. Required Text(s): TBD**

**B. Other Resources:**

- 1.

**VI. METHODS OF PRESENTATION/INSTRUCTION**

**A. Methods of presentation typically include a combination of the following:**

- 1.

**VII. METHODS OF EVALUATION**

**A. Methods of evaluation typically include a combination of the following:**

1. Participation
2. Daily Assignments
3. Written exams/quizzes
4. Lab performance

**C. SCC STANDARD GRADING SCALE POLICY:**

|    |        |    |       |   |            |
|----|--------|----|-------|---|------------|
| A+ | 95-100 | C+ | 75-79 | F | 59 or less |
| A  | 90-94  | C  | 70-74 |   |            |
| B+ | 85-89  | D+ | 65-69 |   |            |
| B  | 80-84  | D  | 60-64 |   |            |

**VIII. SPECIFIC COURSE REQUIREMENTS**