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

I. CATALOG DESCRIPTION

Course Number: **UTIL 2400**
Course Title: National Electrical Safety Code
Prerequisite(s): UTIL 1240

Catalog Description: The study and interpretation of the National Electrical Safety Code.

Credit Hours: 2.0
Class Hours: 30
Lab Hours: 0
Total Contact Hours: 30

II. COURSE OBJECTIVES: *Course will:*

1. Introduce students to the structure, purpose, and scope of the National Electrical Safety Code (NESC).
2. Develop students' ability to interpret and apply NESC rules and guidelines to electrical distribution system design and operation.
3. Emphasize the importance of electrical safety standards in protecting lineworkers, the public, and equipment.
4. Strengthen understanding of regulatory compliance, right-of-way considerations, and safe work practices in the utility industry.
5. Prepare students to reference and apply the NESC to real-world construction, maintenance, and inspection situations.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES

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

1. Explain the purpose, organization, and scope of the National Electrical Safety Code.
2. Locate and interpret specific rules and sections of the NESC relevant to line construction, maintenance, and operation.
3. Identify NESC requirements for clearances, grounding, guying, and conductor spacing.
4. Describe the relationship between the NESC and other safety regulations, including OSHA standards.
5. Apply NESC rules to evaluate compliance in sample construction and maintenance scenarios.
6. Recognize the safety implications of noncompliance with NESC requirements.
7. Demonstrate the ability to use the NESC as a reference tool in professional decision-making and documentation.

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