

SALT LAKE COMMUNITY COLLEGE

NAME OF DEPARTMENT - APPRENTICESHIP

PREFIX AND NUMBER OF COURSE – ELI 2420

NAME OF COURSE – ELECTRICITY IV B

SEMESTER AND TERM –

INSTRUCTOR'S NAME –

PHONE

E-MAIL ADDRESS

MAILBOX LOCATION –

CONSULTATION HOURS – BY APPOINTMENT

TEXTBOOKS

MIKE HOLT'S ILLUSTRATED GUIDE TO UNDERSTANDING THE NEC – VOLUME 2 – NEC 2020
Mike Holts Electrical Exam Preparation
2020 NEC CODE BOOK
2020 UGLY'S

MATERIALS REQUIRED EACH CLASS PERIOD

Textbooks

Calculator (Recommended: TI-30 or equivalent. Graphing or programmable calculators are not permitted. Construction Master, Electrical Pro, Project Master, or other similar calculators are not permitted. Calculators on cell Phones will also not be allowed to be used in the classroom.)

Pencil/Pen

Highlighter

Notebook

ELECTRONIC DEVICES

Electronic devices are not permitted to be used in the classroom. Please turn off all electronic devices. Cell phones are permitted to be in the vibrate mode. If it is necessary to answer a call, please step out of the classroom and make it as brief as possible. Extended phone calls may result in reduction of clock hours.

COURSE DESCRIPTION

Math for electricians including vectors and trigonometric functions. Various circuits, power sources and supplies, advanced motor and motor control. National Electrical Code is included.

PREREQUISITE - ELI 2410 WITH A GRADE OF C+ OR HIGHER

COURSE GOALS &/OR LEARNING OBJECTIVES

At the conclusion of this course, the student will demonstrate:

1. In-depth knowledge of the National Electrical Code including Article 90 through Chapter 9

COURSE REQUIREMENTS

- **CLASSROOM EXAMS** – Unit tests and exams will be given periodically throughout the semester to assess the student’s learning and retention of the course material.
- **Preparation** – Students should expect to spend 5 hours each week in class and approximately an additional 5 hours of study/homework time each week to be successful in this course.
- **Lab requirement** – Students will be expected to attend a minimum of two labs during the semester. These labs will be scheduled by the instructor.
- **On the Job Training** – It is expected that students are employed in the electrical industry and are working full-time while attending school. It is mandatory that students hold a current valid Utah Apprentice Electrician license while enrolled in school. Students without a valid license may be administratively withdrawn from class.
- **ATTENDANCE** - As per the requirements set forth in 29 CFR 29.5 Standards of Apprenticeship paragraph (b)(4), each apprentice must successfully complete a minimum of 144 hours of related and supplemental instruction each year of Apprenticeship (72 hours each semester). In our efforts to accommodate the demanding schedules of the majority of the Apprentices registered and enrolled at Salt Lake Community College, we are offering each of our courses for a period of 75 hours each semester (2.5 hours for each of 30 evenings). This allows the Apprentice the flexibility of missing up to and including 3 class nights. The enforcement of this policy is the responsibility of each instructor. Instructors are required to take attendance each evening. Individual Students will be held responsible for ensuring they have sufficient clock hours to successfully complete the course. Salt Lake Community College will offer up to an additional 6 clock hours at the end of the semester (usually on a Saturday) for those students who need to “make-up” time. There will be an additional cost of \$35 for each block of 3 clock hours, payable on the day of the class. Salt Lake Community College will only offer these additional hours if there is sufficient students to offset the costs associated with providing the training (a minimum of 10 students). Students requiring make up hours must contact the Apprenticeship Office as soon as possible. **Students are not allowed to “make-up” clock hours or labs by attending classes for which they are not registered.** Students with insufficient clock hours will receive a failing grade and be required to re-take the semester course prior to moving forward in their apprenticeship.
- **GRADING SCALE AND POLICY** –Grades will be awarded based on the following percentages:
 - Homework: 25%
 - Quizzes: 25%
 - Midterms: 25%
 - Comp Exam: 25%

The final grade will be issued according to the following table:

A	94 – 100%
A-	90 – 93%
B+	87 – 89%
B	84 – 86%

B- 80 – 83%
C+ 77 – 79%
E 0 – 76%

Students receiving an E grade will be issued 0 clock hours for the course.