

Electrical Technician Preparation Course

Instructor

Email

Tuesday & Thursday

6 pm - 9 pm

Course Description:

In this short-term course, students will learn entry-level skills to begin their career as an electrical technician in a variety of modern manufacturing environments. Ideal candidates include those new to work in a modern manufacturing environment with an aptitude for hands-on work and a desire to build competencies and skills to advance in their field. Through hands-on classes and independent study and work outside of class, students will have the opportunity to build key competencies to ensure on-the-job success.

Objective: As a result of this course, you will have:

- A strong foundation in basic math applications and mathematical conversions between measurement units and mathematical systems
- Utilize scientific and engineering notation
- Read and make precise measurements
- Safety around high voltage equipment, including PPE, and the OSHA Lockout Tagout (LOTO) certification in electrical safety
- Hand tool use
- An introduction to AC and DC currents and their use in electrical systems
- Use of electrical measuring tools
- An introduction to PLC equipment and relay communications
- Use of continuous improvement models in modern manufacturing including Lean and Six Sigma

Course location: SUNY Adirondack Saratoga Room 109
Google Classroom Code: unali5c

Required Texts:

Industrial Maintenance and Mechatronics

ISBN 978-1-63563-427-3

Industrial Maintenance and Mechatronics Lab Workbook

Introductory Technical Mathematics

Grading:

Class Participation 25%

Quizzes 25%

Labs 50%