

| Electrical Distribution and Automation (EDA) (Electrician) 46.0399 | |
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| Objective of Technical Education- <ul style="list-style-type: none"> ➤ Upon successful completion of this program, students will be prepared for an entry level Electrical Technician position. ➤ Students are offered the opportunity to acquire the technical knowledge and skills related to installing, operating, maintain and repair electrically energized residential systems, bending conduit, pulling wires, AC/DC motors, controls, installing electrical services, and electrical distribution panels. ➤ Students learn required safety practices and procedures in accordance to relevant codes. ➤ Students will receive instruction on: preparing sketches, follow blueprints to determine the location of wiring or equipment, bending and placing conduit, pipes, or tubing inside designated walls, pull insulated wires or cables through the conduit to complete circuits between boxes, and will work from ladders, scaffolds, or roofs to install, maintain, or repair electrical wiring, equipment, or fixtures. | |
| PROGRAM SAFETY REQUIREMENTS | <ul style="list-style-type: none"> • APPLY SAFETY PROCESSES AND PROCEDURES RELATED TO ELECTRICITY • LADDER SAFETY • LOCAL AND STATE POLICIES AND PROCEDURES • MAINTAIN A CLUTTER FREE, ORGANIZED WORK AREA • ABILITY TO PAY ATTENTION AND MAINTAIN FOCUS WITHOUT BEING DISTRACTED |
| APTITUDES, ABILITIES/SKILLS | <ul style="list-style-type: none"> • ADAPTABLE AND FLEXIBLE: ABILITY TO ACCEPT CHANGES/TRANSITION TO A VARIETY OF WORKPLACES • SELF-CONTROL • INDEPENDENCE • PAY CLOSE ATTENTION TO DETAILS • DEPENDABLE AND RELIABLE • BE HONEST AND ETHICAL • ABILITY TO FOLLOW SET ROUTINES AND PROCEDURES • PROBLEM SOLVING & DEDUCTIVE REASONING SKILLS • VERBAL COMMUNICATION SKILLS • CRITICAL THINKING SKILLS • ACTIVE LISTENING SKILLS WITHOUT INTERRUPTING OTHERS • ORGANIZATION SKILLS |
| ACADEMIC SKILLS READING MATH SCIENCE | <ul style="list-style-type: none"> • TEXT BOOK READING LEVEL 11th GRADE • TEACHER-MADE PRESENTATIONS, ONLINE MATERIALS AND RESOURCES ARE USED • WRITING SKILLS • DEMONSTRATE PROBLEM SOLVING SKILLS • BASIC READING SKILLS, COMPREHENSION SKILLS |

CCTI

Essential Skills Chart

Electrical Distribution and Automation (EDA) (Electrician)

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| | <ul style="list-style-type: none"> • MATH SKILLS: CALCULATE AND APPLY ALGEBRA, CALCULUS, GEOMETRY, STATISTICS, ARITHMETIC AND THEIR APPLICATIONS • SCIENCE • BLUEPRINT AND ELECTRICAL CODE READING; SKETCHING SKILLS |
| PHYSICAL REQUIREMENTS | <ul style="list-style-type: none"> • NEAR VISION • FINGER DEXTERITY • ARM AND HAND STEADINESS • ABILITY TO CROUCH AND STAND FOR LONG PERIODS OF TIME • ABILITY TO CLIMB LADDERS AND WITHSTAND HEIGHTS • ABILITY TO WORK IN COLD AND HOT CONDITIONS • ABILITY TO LIFT HEAVY OBJECTS |
| SOFT SKILLS | <ul style="list-style-type: none"> • COOPERATE & COMMUNICATE WITH OTHERS • ABILITY TO WORK WITH OTHERS TO SHARE IDEAS AND SOLVE PROBLEMS TOGETHER • USE TIME WISELY • CONDUCT ONESELF MATURELY • ACCEPT DIRECTIVES & CONSTRUCTIVE CRITICISM |
| CLASSROOM ASSIGNMENTS, ASSESSMENTS & TASKS | <ul style="list-style-type: none"> • CLASSWORK/HOMEWORK • BELL RINGER ASSIGNMENTS • TEACHER MADE TESTS AND QUIZZES • WHOLE GROUP READING AND COMPREHENSION CHECKS (VERBAL AND WRITTEN) • GOOGLE CLASSROOM ASSIGNMENTS • PROJECTS • TRAINER STATION WORK COMPLETION • COMPLETION OF LEARNING GUIDES • NOCTI (END OF 12TH GRADE) • BENCHMARK ASSESSMENTS (PRE-NOCTI) • TASK LIST- PROGRAM OF STUDY • REFERENCE NATIONAL ELECTRICAL CODE BOOK |
| INDUSTRY CERTIFICATIONS | <ul style="list-style-type: none"> • OSHA Certification • NOCTI |
| PROGRAM UNIFORM/COSTS/MATERIALS | <ul style="list-style-type: none"> • SAFETY GLASSES (1 PAIR PROVIDED) • WORK SHIRT (1 PROVIDED; ADDITIONAL SHIRTS= \$20) • JEANS OR WORK PANTS- \$20+ |
| ARTICULATION AGREEMENTS | <ul style="list-style-type: none"> • LCCC |
| COOPERATIVE OPPORTUNITIES | <ul style="list-style-type: none"> • BASED ON JOB AVAILABILITY, TEACHER RECOMMENDATION, GRADES OF 77% AND HIGHER, GOOD ATTENDANCE, GOOD |

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| | <p>BEHAVIOR, DRIVER'S LICENSE AND OWN TRANSPORTATION</p> <ul style="list-style-type: none">• PARTNERS: AD HOME INSPECTIONS, WEST SIDE ELECTRIC, TPEI, HAYDEN ELECTRIC |
| EMPLOYMENT OUTLOOK & PROJECTED SALARY | <ul style="list-style-type: none">• EMPLOYMENT OPPORTUNITIES: ELECTRICAL ASSEMBLERS, ELECTRICAL SALES, ELECTRIC AND MECHANICAL TECHNICIAN, ELECTRICAL AND INSTRUMENTATION TECHNICIAN, TELECOMMUNICATIONS INSTALLER, ELECTRICIAN HELPER, LIGHTING TECHNICIAN• MEDIUM PA WAGES- \$28.87 hourly, \$60,040 annually |
| How to find out more? | <ul style="list-style-type: none">• https://www.onetonline.org• www.carboncti.org• https://youtu.be/qlmHER29GTQ• https://www.mynextmove.org/profile/summary/47-2111.00• International Brotherhood of Electrical Workers |