SUGGESTED STUDENT REQUIREMENTS

- Be very SAFETY CONSCIOUS
- Lift 30-50 pounds on occasion
- Math skills—Algebra I and above
- Follow manufacturer specifications and diagrams
- Climb ladders and work at 10-15 feet in height
- Understand and interpret National Electrical Code

Text
- NCCER Core Curriculum
- NCCER Electricity 1 & 2

References
- National Electrical Code
- NEC Handbook

Certifications
- OSHA 10 Safety Certification
- Core Curriculum Certification
- Workplace Readiness Certification
- Electricity 1 & 2 Certification

GENERAL INFORMATION

ATTENDANCE
STUDENTS ATTEND THE TECHNICAL CENTER AT THESE TIMES, DEPENDING ON THEIR YEAR IN THE PROGRAM:
FIRST YEAR
MORNINGS—9:00 TO 11:30
SECOND YEAR
AFTERNOONS—12:00 TO 2:30

HIGH SCHOOL CREDITS
STUDENTS EARN THREE CREDITS FOR SUCCESSFUL COMPLETION OF ELECTRICAL WIRING/CABLING I AND THREE CREDITS FOR SUCCESSFUL COMPLETION OF ELECTRICAL WIRING/CABLING II.

TRANSPORTATION
STUDENTS ARE TRANSPORTED TO AND FROM THE TECHNICAL CENTER IN BUSES PROVIDED BY THEIR HOME SCHOOLS.
STUDENTS MAY HAVE THE OPPORTUNITY TO PARTICIPATE IN THE INSTALLATION OF AN ELECTRICAL SYSTEM IN A HOUSE-BUILDING PROJECT DURING BOTH YEARS. BUS TRANSPORTATION WILL BE PROVIDED TO THE WORK SITE.
THIS COURSE INVOLVES THE CONSTRUCTION OF LOW VOLTAGE ELECTRICAL COMPONENTS INTO SERIES/PARALLEL CIRCUITS PROGRESSING TO THE MORE ADVANCED CIRCUITS AS USED IN HOME AND COMMERCIAL WIRING.

FIRST YEAR
- ELECTRICAL SAFETY & DANGERS
- USE OF HAND/POWER TOOLS & TESTING EQUIPMENT
- ELECTRICAL THEORY & TERMINOLOGY
- IDENTIFICATION OF MATERIALS & ELECTRICAL SYSTEM
- COMPONENTS
- BASIC BLUE PRINT PLAN READING—RESIDENTIAL/COMMERCIAL
- CONSTRUCTION/DESIGN OF LOW VOLTAGE SERIES/PARALLEL CIRCUITS
- CONSTRUCTION/DESIGN OF CIRCUITS WITH HOUSEHOLD DEVICES

SECOND YEAR
- ADVANCED CIRCUIT DESIGN & CONSTRUCTION
- ELECTRICAL SYSTEM SIZING
- LAYOUT & DESIGN OF RESIDENTIAL CIRCUITS
- ADVANCED BLUE PRINT READING & SYMBOL INTERPRETATION
- CONTACTORS & CONTROLLERS
- CO-OP TRAINING IS A LEARNING OPPORTUNITY DURING THE 2ND YEAR.

CAREER OPPORTUNITIES

ELECTRICIANS ARE THE HIGHEST PAID TRADEMEN OF ALL THE CONSTRUCTION TRADES. THERE ARE MANY SPECIALIZED AREAS TO CHOOSE FROM:

- RESIDENTIAL ELECTRICIAN
- COMMERCIAL ELECTRICIAN
- MAINTENANCE ELECTRICIAN
- POWER TRANSMISSION (POWER COMPANY)
- DISPATCHERS
- SUBSTATION ATTENDANT
- LINE INSTALLER, REPAIRER, SPLICER
- SPECIALITIES:
  - GENERATOR TECHNICIAN
  - DIGITAL CONTROLS TECHNICIAN
  - INSPECTOR

EMPLOYMENT

ELECTRICIAN JOBS ARE EXPECTED TO GROW FASTER THAN AVERAGE THROUGH THE YEAR 2014. EVEN MORE POSITIONS WILL BE AVAILABLE AS LARGE NUMBERS OF OLDER ELECTRICIANS RETIRE. JOURNEYMEN ELECTRICIANS ARE AVERAGING $20-28/HOUR. MASTER ELECTRICIANS MAKE FROM $40-60/HOUR.

THE NORTHERN NECK TECHNICAL CENTER DOES NOT DISCRIMINATE AGAINST ANY GROUP OR INDIVIDUAL ON THE BASIS OF RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN, AGE, OR DISABILITY.