OVERALL PLACEMENT RATE: 100%

MEDIAN PAY: $24.70 per hour

Projected job growth through 2024:
North-central Minnesota: +7.7%
Statewide: +10.6%

Sources: Graduate Follow-up Survey and Minnesota Department of Employment and Economic Development
**Program Name:** Electrical Construction & Maintenance  
**Credential:** Diploma  
**Credits:** 74  
**Length of Program:** 4 semesters

### REQUIRED COURSES:

#### SEMESTER 1
- **BLDG 1102** Construction Safety 1
- **CONE 1102** Intro to Electrical Circuit Theory 4
- **CONE 1104** Intro to National Electrical Code (NEC) 2
- **CONE 1107** Residential Wiring 3
- **CONE 1117** Residential Wiring Lab 5
- **MATH 1100** Technical Math  
  or **MATH 1930** Intro Mathematical Sciences 3

#### SEMESTER 2
- **CONE 1108** Electrical Theory 5
- **CONE 2226** Motor Control Lab 4
- **CONE 2216** Motor Control 3
- **CONE 1116** Conduit/Tool Applications 2
- **ENER 1500** V Sys Design/Install 2
- **CONE 1114** National Electrical Code I 2

#### SEMESTER 3
- **CONE 1115** Electrical Print Reading/Estimating 2
- **CONE 2212** Commercial Wiring 3
- **CONE 2217** Commercial Wiring Lab 5
- **CONE 2114** National Electrical Code II 2
- **CONE 2300** Programmable Logic Controllers 3
- **CONE 2210** Electronic Motor Control 2
- **CMAE 1506** Intro to Computer Tech 2
- **HPER 1410** First Aid/CPR 1

#### SEMESTER 4
- **BLDG 1108** Metal Fabrication 2
- **CONE 1300** Electrical Safety 2
- **CONE 2200** Building Automation 3
- **CONE 2307** Industrial Wiring 2
- **CONE 2400** Advanced Programmable Logic Controls 2
- **CONE 2800** Capstone 2
- **CONE 2248** Code Applications 2
- **CONE 2100** Instrumentation Process Control 2
- **CONE 2000** Industry Career Skills 1

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**More information**

Admissions Office  
(218) 333-6600 or (800) 942-8324  
TTY: (800) 627-3529  
ntc.admissions@ntcmn.edu

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