

## **Construction Electrician Diploma**

**Would you like to connect with a career that has constant demand for your skills?**

The Riverland Construction Electrician Program is designed to train you either as an entry-level Construction Electrician or Maintenance Electrician. Construction Electricians assemble, install, and wire different types of equipment for residential, commercial and industrial installations. Work may include basic circuits, electrical motors and their controls, electronic controls, programmable logic controllers and variable frequency drives. Maintenance Electricians maintain, repair and replace malfunctioning parts and equipment, programmable logic controllers and variable frequency drives, usually in manufacturing or industrial plants. A solid background in math and good reading comprehension are important skills for applicants to this program.

Students gain hands-on, real-world work experience by participating in wiring a new house. This enables you to find solutions to on-the-job challenges under the guidance of expert instructors. You can look forward to an exceptional learning experience that combines classroom, lab settings and required general education classes.

### **Employment Outlook**

Riverland Construction Electrician graduates will be ready to enter the workforce as entry-level construction electricians with union and non-union contractors or entry level maintenance electricians. Students may also pursue a career in electrical sales or low voltage, which would include fire alarm, communications, information technology, home automation and installing satellite TV. This trade offers unlimited opportunities in many areas of the country and there are excellent opportunities for advancement. This outstanding Riverland program opens the door to your future in the electrical industry. The Bureau of Labor Statistics is forecasting a high demand for skilled technicians in the near future. Ask your Program Advisor what this can mean for you.



**Degree Type:** Diploma (DIP)

**Location:** Albert Lea

**Program Starts:** Fall Start

**Total Credits:** 74

**Course Plan:** Two Year

**Program Costs:**

Number of Credits: 74

Tuition per credit: \$162.00

*Estimated Total Tuition Cost:*  
*\$11,988.00*

Additional Costs

Other required costs: \$650

Books: \$675

### **Faculty & Advisors**

Steve Viotor

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## Construction Electrician Program Curriculum

Applicants to the Construction Electrician Program should have a solid background in basic mathematics. Applicants should also have good reading comprehension skills in the English language. Applicants must meet minimum levels in math and reading comprehension skills before entering any courses in the program. Each applicant will take the CPT test prior to admission to the program to determine levels of math and reading comprehension skills. Applicants must have acceptable scores in both the math and reading comprehension portions of the CPT test or have completed the required developmental courses satisfactorily BEFORE entering the Construction Electrician Program. Students must attend a minimum of 95 percent of each required program course to receive work credit for licensure from the Minnesota Department of Labor and Industry.

Requirements for program admission: Tool kit different options available, price varies per supplier.

### Required Core Courses (66 Credits)

Crs ##	Name
ELEC1702	Theory I
ELEC1703	Electrical Lab
ELEC1705	Electrical Theory II
ELEC1707	Electrical Safety
ELEC1713	Construction Blueprint Reading
ELEC1714	Conduit
ELEC1715	Residential I
ELEC1723	Residential II
ELEC1728	NEC I
ELEC1746	Power Electronics
ELEC2701	Electric Motors I
ELEC2702	Structured Wiring
ELEC2703	Motor Controls I
ELEC2704	House Wiring Project (Structured Wiring)
ELEC2706	Motor Controls II
ELEC2717	Transformers
ELEC2721	Industrial Wiring
ELEC2723	Electric Motors II
ELEC2745	PLC I
ELEC2750	Plc II
ELEC2780	Commerical I
ELEC2785	Commercial II
ELEC2790	Nec III

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General Studies Courses (8 Required Credits )

Crs ##	Name
BUSO1620	Introduction to Computer
GSCL1270	Employment Search Skills
GSCM1510	Workplace Human Relations
GSMA1420	Technical Math I
HLTH1130	Cardiopulmonary Resuscitation