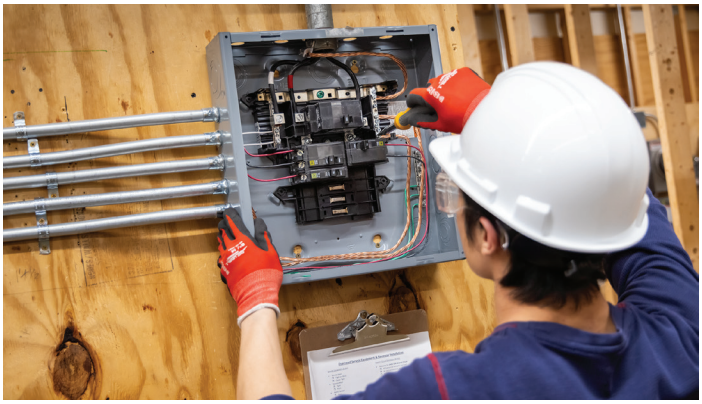
Manufacturing, Construction & Transportation Academic & Career Pathway

Electricity

PROGRAM CODE: **31-413-1**

TD

Technical Diploma



Location: Downtown Milwaukee Campus

Start Dates: August and January

Admission Requirement: High school diploma or GED, ability to drive and a valid driver's license

Financial Aid Eligible: Yes.
Apply at fafsa.gov. Use School Code 003866.

Program Description

Learn skills needed for entry-level electrician positions in industry and the building trades. This program does not substitute for an electrical apprenticeship, but it does offer the basic knowledge needed to begin working for some electrical contractors.

Career Outlook

Some graduates use the training as a step toward an electrician apprenticeship.

Program Learning Outcomes

- Apply electrical theory.
- Install electrical equipment in a residential setting.
- Install electrical equipment in a commercial setting.
- Analyze industrial equipment.

COURSE		CREDITS
ELECTY-308	Basic Skills for Electrical Wiring ‡	**2**
ELECTY-310	Cable Wiring ‡	**2**
ELECTY-312	Electrical Raceway Installation ‡	**2**
ELECTY-340	Electrical Code Fundamentals 1 ‡	**2**
ELECTY-378	Construction Blueprint Reading ‡	**1**
ELECTY-392	Principles of Electricity (or) ELECTY-390 Principles of Electricity 1 and ELECTY-391 Principles of Electricity 2	**5**
ELECTY-314	Electrical Service Installation ‡	**1**
ELECTY-328	Electric Motor Control Wiring ‡	**2**
ELECTY-341	Electrical Code Fundamentals 2 ‡	**1**
ELECTY-382	Electrical Equipment Circuit Analysis ‡	**1**
ELECTY-384	Electrical Design and Estimating ‡	**1**
ELECTY-386	Solid State Devices ‡	**2**
ELECTY-394	Electrical Apparatus ‡	**4**
ENG-340	Workplace Communication (or) ENG-195 Written Communication ‡	**2**

CREDITS
Total credits needed to complete this diploma **28**

‡ Prerequisite required.

Program curriculum requirements are subject to change.

Current MATC students should consult their Academic Program Plan for specific curriculum requirements.

Complete Program Details

QUESTIONS? 414-297-8901 or mctpathway@matc.edu

MATC is an Affirmative Action/Equal Opportunity Institution and complies with all requirements of the Americans With Disabilities Act. MATC is accredited by the Higher Learning Commission, Commission on Institutions of Higher Education, the national standard in accrediting colleges and schools for distinction in academics and student services. **2024-25**

Wisconsin Technical College System — Member College