



Start dates: August and January

Electricity

TECHNICAL DIPLOMA Program Code: 31-413-1 | Downtown Milwaukee Campus

This two-semester program prepares you for entry-level electrician positions in industry and the building trades. Completion of this program does not substitute for an electrical apprenticeship, but does offer you the basic knowledge needed to begin working for some electrical contractors. Some graduates use the training as a step toward an apprenticeship, either as a construction electrician or industrial maintenance electrician.

Career Outlook

Many fields, including industry, construction and maintenance, require electricians and this diploma helps you start that career path. Positions available to program graduates include electrician's helper and electrical parts distribution worker.

Workplace Competencies

Employers will expect graduates to:

- Use basic meters to check electrical circuits
- Do basic calculations relative to circuit loading and wire size
- Perform associated mechanical operations, such as conduit bending and wiring
- Read electrical blueprints and interpret electrical code

Admission Requirements

- A high school diploma or GED
- Ability to drive and a valid driver's license
- Demonstration of proficiency in basic skills through a course placement assessment

 **MILWAUKEE AREA *Technical College***
School of **TECHNOLOGY** and **APPLIED SCIENCES**

Electricity Curriculum

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	5
	(or) ELECTY-390	
	Principles of Electricity 1	
	and ELECTY-391	
	Principles of Electricity 2	
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-345	Communications 1	1
SOCSCI-330	Applied Economics & Human Relations ..	1

TOTAL CREDITS: 28

‡ Prerequisite required.

Program curriculum requirements are subject to change.



**For complete information, go to
matc.edu/tas/index.cfm**

To apply for financial aid, visit fafsa.ed.gov
School Code: 003866

Possible Careers

- Electrician
- Electrician's Helper
- Construction Electrician Apprentice
- Industrial Maintenance Electrician Apprentice
- Wholesale Electrical Parts Distribution

Related Program

- Electrical Power Distribution/Line Mechanic



For more information:
matc.edu or 414-297-MATC
Wisconsin Relay System 711

**Downtown
Milwaukee Campus**
700 West State Street

Mequon Campus
5555 West Highland Road

Oak Creek Campus
6665 South Howell Avenue

West Allis Campus
1200 South 71st Street