

# ELECTRICIAN (ABC) APPRENTICESHIP

## Overview

Electrician (ABC) Apprenticeship

Program Code 50-413-9

For more information: [www.wctc.edu/electrician](http://www.wctc.edu/electrician) (<http://www.wctc.edu/electrician/>)

Electricians specialize in handling all types of electrical systems for residential and commercial structures. They set up, repair and maintain wiring and electrical components including breaker boxes, switches, light fixtures, and telephone and television wiring. Receive high-quality, hands-on classroom instruction that complements on-the-job apprenticeship training critical for success in the industrial trades.

The minimum required course grades and cumulative grade point average (GPA) for students admitted to this program, under this catalog are:

Core Courses = C  
Program GPA = 2.0

**Build your degree along a career pathway.** Start with a couple of courses or an entry-level credential to enter the job market in your area of interest, then continue with higher credentials on your educational path for job advancement and higher wages.

## Career Pathway

1. Electrician (ABC) Apprenticeship 16
2. Technical Studies - Journeyworker

Additional details regarding Associated Builders and Contractors (ABC) apprenticeships:

- Contact Associated Builders and Contractors, Inc. (ABC) of Wisconsin, 5330 Wall Street, Madison, WI 53718; [www.abcbwi.org/apprenticeship](http://www.abcbwi.org/apprenticeship) (<http://www.abcbwi.org/apprenticeship/>).
- Complete the ABC application packet, which will include qualifying test information.
- After application approval, a list of potential employers will be provided.
- Obtain employment for apprenticeship training.

Application to WCTC is not necessary by the student.

*This WCTC program prepares students to obtain the required licensure to be employed/practice in the state of Wisconsin. The College does not guarantee its curriculum matches the requirements for preparation, examinations, or licensure for other states.*

## Learning Outcomes

### Program Outcomes

1. Apply AC and DC theory.
2. Apply electrical code requirements.
3. Apply operational principles to transformer installations.
4. Examine electric motor theory and applications.

5. Apply electric motor control theory and applications.
6. Analyze variable speed drives.
7. Interpret electrical equipment and drawings.
8. Communicate trade and occupational related information effectively.

## Critical Life Skills

To help our students prepare for success in a workplace and society that is **increasingly global, multi-cultural, and collaborative**, all students are given opportunities to develop and demonstrate Critical Life Skills, both in and out of the classroom. The following Critical Life Skills are learning outcomes for WCTC students.

- **Communication:** Demonstrate appropriate communication.
- **Critical Thinking/Problem Solving:** Demonstrate critical thinking skills to analyze situations and solve problems.
- **Relationships:** Demonstrate effective interpersonal skills.
- **Self-management:** Demonstrate responsible and respectful behavior.

## Required Courses

Code	Title	Credits
<b>Core Courses</b>		
413-781	Intro Elect Theory/DC Safety	2
Approved Substitutes: 413-511		
413-782	Wiring, Blueprt Rdg, Intro NEC	2
Approved Substitute: 413-512		
413-783	Electric, Motor,Conduit, Light	2
Approved Substitutes: 413-513		
413-784	Ground, Overcurrent, Terminate	2
Approved Substitutes: 413-514		
413-785	Intermed Wiring Application	2
Approved Substitutes: 413-515		
413-786	Motor Appl Controls, Installs	2
Approved Substitutes: 413-516		
413-787	Emergency & Security Systems	2
Approved Substitutes: 413-517		
413-788	Systems Controls	2
Approved Substitutes: 413-518		
<b>Total Credits</b>		<b>16</b>

## Full-time Plan

<b>First Year</b>		
<b>Fall Term 1</b>		<b>Credits</b>
413-781	Intro Elect Theory/DC Safety	2
<b>Credits</b>		<b>2</b>
<b>Spring Term 1</b>		
413-782	Wiring, Blueprt Rdg, Intro NEC	2
<b>Credits</b>		<b>2</b>
<b>Second Year</b>		
<b>Fall Term 1</b>		
413-783	Electric, Motor,Conduit, Light	2
<b>Credits</b>		<b>2</b>

<b>Spring Term 1</b>		
413-784	Ground, Overcurrent, Terminate	2
	<b>Credits</b>	<b>2</b>
<b>Third Year</b>		
<b>Fall Term 1</b>		
413-785	Intermed Wiring Application	2
	<b>Credits</b>	<b>2</b>
<b>Spring Term 1</b>		
413-786	Motor Appl Controls, Installs	2
	<b>Credits</b>	<b>2</b>
<b>Fourth Year</b>		
<b>Fall Term 1</b>		
413-787	Emergency & Security Systems	2
	<b>Credits</b>	<b>2</b>
<b>Spring Term 1</b>		
413-788	Systems Controls	2
	<b>Credits</b>	<b>2</b>
	<b>Total Credits</b>	<b>16</b>