

1800 Bronson Blvd., Fennimore, WI 53809 | 608.822.3262 | Toll Free: 800.362.3322 | www.swtc.edu

## **Construction Electrician Apprenticeship Program**

## **Course Curriculum**

Semester 01 (Tuiti	on: \$330)			
<b>Course</b> #	<b>Course Title</b>	Credits		
50-413-521	Construction Electrician I	2		
Students practice ba	e Hours: 72 sic and electrical safety, choose and properly utilize hand and power tools of ional Electric Code and basic math. Note: Students must be indentured in the ceship Program.	the trade, and Construction		
		2		
Semester 02 (Tuiti	on: \$330)			
<b>Course</b> #	<b>Course Title</b>	Credits		
50-413-522	Construction Electrician II	2		
Credits: 2 Lecture Hours: 72 Students apply basic electrical theory and test equipment, look up and apply the National Electric Code covering devices of the trade beginning with commercial and residential wiring. Note: Students must be indentured in the Construction Electrician Apprenticeship Program.				
		2		
Semester 03 (Tuiti				
<b>Course</b> #	<b>Course Title</b>	Credits		
50-413-523	Construction Electrician III	2		
Credits: 2 Lecture Hours: 72 Students apply electrical AC theory while using DC-AC motors to explore grounding, conduit bending, boxes and fitting. Note: Students must be indentured in the Construction Electrician Apprenticeship Program. 2				
Semester 04 (Tuiti	on: \$330)			
Course #	Course Title	Credits		
50-413-524	Construction Electrician IV	2		
Credits: 2 Lecture Hours: 72 Students examine conductor installation, cable traps, conductor termination and splices to be used in the installation of electrical services, circuit breakers and fuses, motor control devices, and electric lighting. Note: Students must be indentured in the Construction Electrician Apprenticeship Program.				

2

50-413-525 Construction Electrician V

2

2

2

2

Credits: 2 Lecture Hours: 72

Students gain knowledge in loading calculations, conductor selection, over current protection, raceways and boxes, wiring devices, and distribution equipment. Note: Students must be indentured in the Construction Electrician Apprenticeship Program.

Semester 06 (Tui	tion: \$330)	
<b>Course</b> #	Course Title	Credits
50-413-526	Construction Electrician VI	2
Students work with motor controls, ele	re Hours: 72 n distribution system transformers, basic lighting, motor calculatic ctricity in HVAC, and hazardous locations. Note: Students must b rician Apprenticeship Program.	
		2
Semester 07 (Tui	tion: \$330)	
<b>Course</b> #	Course Title	Credits
50-413-527	Construction Electrician VII	2
U	re Hours: 72 vledge in load calculations, commercial/industrial lighting, specia s, and basic electronic theory. Note: Students must be indentured i	

emergency systems, and basic electronic theory. Note: Students must be indentured in the Construction Electrician Apprenticeship Program.

Semester 08 (Tu	uition: \$330)	
<b>Course</b> #	Course Title	Credits
50-413-528	Construction Electrician VIII	2

Credits: 2 Lecture Hours: 72

Students work with fire alarm systems, specialty transformers, advanced solid state controls, HVAC controls, welding machinery, heat tracing, and freeze protection. Note: Students must be indentured in the Construction Electrician Apprenticeship Program.

Total Credits: 16 Estimated Total Tuition\*: \$2,640