

Jump Start 2.0 Associate of Applied Science: Technical Studies Concentration in Electrician

Postsecondary Partner: Northshore Technical Community College

Overview

The mission of the Electrician Program is to provide a basic core of specialized instruction and practical shop experience, and students will be prepared for employment in electrical trades. Students who successfully complete the Electrician Program will be able to:

- 1. Wire residential, commercial, and industrial structures utilizing appropriate methods and applications.
- 2. Produce precise measurements and calculations related to electrical systems.
- 3. Bend conduit to specification utilizing the appropriate technique.
- 4. Draw, wire, and connect basic motor controls.
- 5. Draw, wire, and connect multiple switching locations controlling luminaries.

Capstone Credentials

Regional (Emerging)	Basic	Advanced	Fast Forward Advanced Plus
-Carpenter	- Career & Technical	-Technical Diploma:	Associate of Applied
International Training	Certificate: Electrical	Welding	Science: Technical
Fund (CITF) Career	Fundamentals	- ABC Pelican Level 2	Studies Concentration
Connections: Pre-	- Career & Technical	- Carpenter	in Electrical
Apprentice Core Skills	Certificate: Electrical	International Training	
- NCCER Electrical	Helper	Fund (CITF) Career	
Helper	-ABC Pelican Level 1	Connections: Level 2	
-OSHA 30	- Carpenter	-NCCER Electrical Level	
	International Training	2	
	Fund (CITF) Career		
	Connections: Level 1		
	-NCCER Electrical Level		
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^{*}Core Academic Course

^{**}Jump Start CTE Course

Grade 9			
Semester 1	Semester 2		
*English I 120331	*U.S. History 220403		
*Algebra I 160321	*Physical Science 150802		
*Civics 220501/220504	**Intro to Bus Comp Apps 040401 or Agriscience		
	1 010301		
*Physical Education I 109105	*Foreign Language I		

Grade 10			
Semester 1	Semester 2		
*English II 121001	*½ Physical Education II 190106 ½ Health		





	Education 190500	
*Financial Literacy 160345 or Geometry 160323	*Biology 150301	
*World Geography 220300	*Foreign Language II	
**Agriscience II 010302 or Basic Technical	**Business Computer Applications 040400	
Drafting 110560		

Additional and/or equivalent TOPS core aligned courses can be found in Bulletin 741.

Grade 11			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
**Basic Electricity ELEC	**DE Basic Electricity I	**Introduction to	**DE Introduction to
1120	310400	Motor Control ELEC	Motor Control 890802
		1420	
**Residential Wiring	**DE Residential	**Motor Controls ELEC	**DE Motor Controls
ELEC 1210	Wiring 890806	1440	890804
**National Electric	**DE National	**Solid State Theory	**DE Solid State
Code ELEC 1230	Electrical Code 890805	ELEC 2520	Theory 890808
*College Algebra	*Algebra III: DE-CMAT	**Logic Functions ELEC	**DE Logic Functions
Fundamentals MATH	1213 College Algebra	2540	890803
1005	216001		
*English Composition I	*English III: DE-CENL	*Critical Reading and	*English IV: DE – CENL
ENGL 101	1013 English	Writing ENGL 102	1023 English
	Composition I 120601		Composition II 120607

Grade 12			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
**Intro to	**DE Logic Functions	**Blueprint	**DE Design, Blueprint
Programmable Logic	890803	Interpretation ELEC	Reading and Codes
ELEC 2720		1430	310622
**Electrical Raceways	**DE Electrical	**Technical Math for	**TBD
ELEC 1220	Raceways 890800	Elec ELEC 2460 (4 th	
		math)	
**Generators/Motors	**DE	**Practicum ELEC 2997	**TBD
& Transformers ELEC	Generators/Motors		
1330	and Transformer		
	Operation 890801		
**Residential Wiring	**DE Residential	*Intro to American Gov	* Government: DE-
Install ELEC 1311	Wiring Installation	POLI 2010	CPOL 2013
	890806		Introduction to
			American Govt 220514
*Environmental	*DE General/Physical	*Western Civilization I	*Western Civilization:
Biology	Science Elective	HIST 1010	DE-CHIS 1013 Western
BIOL 1110	150899		Civilization I 220446





Fast Forward Jump Start 2.0 Associate Degree

This pathway framework is an outline of how the approved courses can be implemented. Schools may opt to rearrange the order of course sequencing in order to meet local scheduling requirements. Additionally, Fast Forward pathways are dynamic and the Jump Start Review Panel will consider course equivalents on an as needed basis.

