	High School Graduation Years 2019, 2020 and 2021	
Unit/Standard Number	Electrical and Power Transmission Installers, Other CIP 46.0399 Task Grid	Proficiency Level Achieved: (X) Indicates Competency Achieved to Industry Proficiency Level
	Secondary Competency Task List	
100	BASIC SAFETY	
101	Inspect and use personal protective equipment	
102	Identify causes of job site accidents.	
103	RESERVED	
104	RESERVED	
105	Properly don fall protection	
	Identify four classes of fire extinguishers	
107	Confirm circuits are de-energized before working on them.	
	Perform lockout/tagout.	
	Inspect and use ladders	
	Complete jobsite hazard analysis form	
111	Identify Arc-flash hazards and protection	
200	HAND TOOLS	
	Use screwdrivers.	
	Use pliers.	
	Use keyhole/drywall saw.	
204	Use hydraulic knockout/punch tool.	
205	Use a tape measure.	
206	Use wire strippers.	
207	Use wire cutters.	
208	Use utility knife.	
209	Use torpedo level.	
	Use a hammer.	
	Use a conduit reamer.	
	Use a hacksaw.	
	Use a roto-split.	
214	Use adjustable or non adjustable wrenches.	
	Use ratchet and sockets.	
216	Use nut drivers.	
200	POWER TOOLS	
	POWER TOOLS	
	RESERVED Use electric hammer drill.	
302		
303	Use reciprocating saw.	

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304 Use portable hand-held band saw. 305 RESERVED 306 Use a drill. 307 RESERVED 308 RESERVED 309 RESERVED 310 Use oscillating multi purpose tool. 311 Use impact driver. 400 BLUEPRINT READING 401 Identify types of blueprint plans. 402 Identify blueprint symbols. 403 Interpret blueprint plans. 404 RESERVED 405 Develop electrical details on a residential blueprint. 406 Use a measuring tool to scale. 500 ANCHORS AND SUPPORTS 501 Identify, select and install various types of anchors and supports. 600 RESIDENTIAL CABLING TECHNOLOGY Install non-metallic (NM) Cable for connection to an electrical device. 602 Install metal-clad cable (MC).	
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603 RESERVED	
604 RESERVED	
605 Terminate a coaxial cable.	
606 RESERVED	
607 RESERVED	
608 RESERVED	,
609 Identify telecommunications cable types.	
610 Terminate an RJ45 connector.	
611 Install SE cable.	
700 SWITCHES AND RECEPTACLES CIRCUITS	
701 Install a duplex receptacle.	
701 Install a single pole switch.	
703 Install a 3-way switch.	

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Unit/Standard Number	High School Graduation Years 2019, 2020 and 2021 Electrical and Power Transmission Installers, Other CIP 46.0399 Task Grid	Proficiency Level Achieved: (X) Indicates Competency Achieved to Industry Proficiency Level
704	Install a 4-way switch.	
	Install a split-wired duplex receptacle.	
706	Install a Ground Fault Circuit Interrupter (GFCI) Receptacle.	
707	Install an Arc-Fault Circuit Interrupter (AFCI).	
	Install a time control switch.	
	Install a range receptacle.	
710	Install a dryer receptacle.	
	FIXTURES	
801	Install surface-mounted lighting fixture.	
802	Install recessed lighting fixtures.	
	Install a ceiling fan.	
	Install LED lighting.	
805	Identify IC and non-IC recessed lighting fixtures.	
900	RACEWAYS	
	Install Electrical Metallic Tubing (EMT).	
	Install Poly-Vinyl Chloride conduit (PVC).	
	Identify surface metal and non-metal raceways (Wiremold).	
	Identify flexible raceway.	
	RESERVED	
906	RESERVED	
	RESERVED	
	Bend a stub 90°.	
909	Bend an offset.	
	Bend a back to back 90°.	
	Cut, ream and deburr raceway systems.	
912	Install conductors in a raceway system.	
4555	MUDED DEVICES	
	WIRED DEVICES	
	Install a hard wired smoke detector.	
	Install door-bell system.	
	Trim out electrical devices.	
	Install an occupancy sensor.	
1005	Install a photocell.	
1100	TESTING EQUIPMENT	

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Electrical and Power Transmission Installers, Other CIP 46.0399 Task Grid Live a multimeter. CIP 46.0399 Task Gri		High School Craduction Voors 2010, 2020 and 2021	
Use a continuity tester.	Z	Electrical and Power Transmission Installers, Other CIP 46.0399	Achieved: (X) Indicates Competency Achieved to Industry
Use a plug-in circuit tester.	1101	Use a multimeter.	
Use a plug-in circuit tester.	1102	Use a continuity tester.	
1105 Use a circuit tracer.			
1106 Use a circuit tracer.	1104	Use a clamp-on ammeter.	
1107 Use a network cable tester.	1105	RESERVED	
1108 Apply Ohm's Watt's Law calculations to electrical applications. 1200 ELECTRICAL SERVICE 1201 Install an overhead service. 1202 Identify parts of an underground service. 1203 RESERVED 1204 RESERVED 1205 RESERVED 1206 RESERVED 1207 RESERVED 1208 RESERVED 1209 Identify types of safety disconnect switches. 1210 Terminate a service panel/load center. 1300 NATIONAL ELECTRICAL CODE 1301 Identify the purpose of the National Electrical Code (NEC). 1303 Use Chapter 9 Tables. 1303 Use Phase Part of the National Electrical Code (NEC). 1306 Identify the puddentify the puddentify the puddentify the puddentify the puddentify the following and competencies that students perform for all electrical installations. 1304 Identify the puddentify the National Electrical Code (NEC). 1305 Identify the pode cycle of the National Electrical Code (NEC). 1306 Identify the pode cycle of the National Electrical Code (NEC). 1400 Identify the procedures for installing a wind turbine system. 1401 Identify renewable energy sources. 1402 Identify renewable energy sources. 1403 RESERVED 1404 Identify procedures for installing a solar energy source system. 1405 RESERVED 1406 RESERVED	1106	Use a circuit tracer.	
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