COURSE REQUIREMENTS BY JOB TITLE

Electrical Technology **Construction Electrician** **824.261-010**

		43		**Credit**
	Diploma	**1155**		**Total**
Course Number	**Title**	**Clock Hours**	**Credit Hours**	**Type Class**
EET 108	ELECTRICAL CIRCUIT ANALYSIS (CIP CODE: 15)	90	6.0	L
EET 109	ELECTRICAL CIRCUIT ANALYSIS LAB (CIP CODE: 15)	180	4.0	S
EET 150	TRANSFORMERS (CIP CODE: 15)	30	2.0	L
EET 151	TRANSFORMERS LAB (CIP CODE: 15)	45	1.0	S
EET 199	COOPERATIVE EDUCATION PROGRAM (CIP CODE: 15)	150	2.0	E
EET 250	NATIONAL ELECTRICAL CODE (CIP CODE: 46)	60	4.0	L
EET 254	ELECTRICAL CONSTRUCTION (CIP CODE: 46)	45	3.0	L
EET 255	ELECTRICAL CONSTRUCTION LAB (CIP CODE: 46)	180	4.0	S
EET 264	ROTATING MACHINERY (CIP CODE: 15)	30	2.0	L
EET 265	ROTATING MACHINERY LAB (CIP CODE: 15)	90	2.0	S
EET 270	ELECTRICAL MOTOR CONTROLS I (CIP CODE: 15)	30	2.0	L
EET 271	ELECTRICAL MOTOR CONTROLS I LAB (CIP CODE: 15)	90	2.0	S
MTH 150	TECHNICAL ALGEBRA I (CIP CODE: 27)	45	3.0	L
MTH 170	CIRCUIT MATHEMATICS (CIP CODE: 27)	45	3.0	L

COURSE REQUIREMENTS BY JOB TITLE

Electrical Technology **Construction Electrician** **824.261-010**

	43	**Credit**
Diploma	**1155**	**Total**

ADDITIONAL REQUIREMENTS: Choose a minimum of 1 CPU class from the IE Core

Clock Hours: 45 **Credit** 3 **Type** L

Clock	**Total**	1155	**L =**	420	**S =**	585	**E =**	150
Credit	**Total**	43	**L =**	28	**S =**	13	**E =**	2

EET 104, 105, 106, 107, may be substituted for EET 108, 109
EET 154, 155, 252, 253, may be substituted for EET 254, 255
EET 268, 269, may be substituted for EET 270, 271, 264, 265
EET 266, 267 may be substituted for EET 150, 151, 264, 265
MTH 175 may be substituted for MTH 150 and MTH 170
NOTE: EET 160 may substitute for MTH 150 and MTH 200 (if this substitution is used a minimum of 8 credit hours are required for the general education core)

COURSE REQUIREMENTS BY JOB TITLE

Electrical Technology | **Electrical Technology--** | **46.0302**

Construction Electrician Option | **60** | **Credit**

Associate of Applied Science Degree | **1140** | **Total**

Course Number	Title	Clock Hours	Credit Hours	Type Class
CPU 100	INTRODUCTION TO COMPUTERS (CIP CODE: 11)	45	3.0	L
EET 108	ELECTRICAL CIRCUIT ANALYSIS (CIP CODE: 15)	90	6.0	L
EET 109	ELECTRICAL CIRCUIT ANALYSIS LAB (CIP CODE: 15)	180	4.0	S
EET 150	TRANSFORMERS (CIP CODE: 15)	30	2.0	L
EET 151	TRANSFORMERS LAB (CIP CODE: 15)	45	1.0	S
EET 250	NATIONAL ELECTRICAL CODE (CIP CODE: 46)	60	4.0	L
EET 254	ELECTRICAL CONSTRUCTION (CIP CODE: 46)	45	3.0	L
EET 255	ELECTRICAL CONSTRUCTION LAB (CIP CODE: 46)	180	4.0	S
EET 264	ROTATING MACHINERY (CIP CODE: 15)	30	2.0	L
EET 265	ROTATING MACHINERY LAB (CIP CODE: 15)	90	2.0	S
EET 270	ELECTRICAL MOTOR CONTROLS I (CIP CODE: 15)	30	2.0	L
EET 271	ELECTRICAL MOTOR CONTROLS I LAB (CIP CODE: 15)	90	2.0	S
MTH 150	TECHNICAL ALGEBRA I (CIP CODE: 27)	45	3.0	L
MTH 160	TECHNICAL ALGEBRA II (CIP CODE: 27)	45	3.0	L
PHX 150	INTRODUCTORY PHYSICS (CIP CODE: 40)	45	3.0	L
TEC 200	TECHNICAL COMMUNICATIONS (CIP CODE: 23)	45	3.0	L
WPP 200	WORKPLACE PRINCIPLES (CIP CODE: 32)	45	3.0	L

COURSE REQUIREMENTS BY JOB TITLE

Electrical Technology	**Electrical Technology--**		**46.0302**
	Construction Electrician Option	**60**	**Credit**
	Associate of Applied Science Degree	**1140**	**Total**

Additional Requirements Choose 10 credit hours from IE core or any EET course

Clock Hours:		0	**Credit**		10	**Type**		L	
Clock	**Total**	1140	**L =**	555		**S =**	585	**E =**	0
Credit	**Total**	60	**L =**	47		**S =**	13	**E =**	0

EET 104, 105, 106, & 107 may be substituted for EET 108 & 109
EET 154, 155, 252, & 253 may be substituted for EET 254 & 255
EET 268 & 269 may be substituted for EET 270, 271, 264, & 265
EET 198 may be substituted for EET 199
CIS 100 may be substituted for CPU 100
TQX 110 may be substituted for WPP 200

Nontransferable General Education:
TEC 200, MTH 150, MTH 160, PHX 150, WPP 200

Transferable General Education:
Humanities/Oral Communication (3 hrs)--COM 181

Mathematics (3 hrs)--MA or MT 109 or any higher level mathematics course

Science (3 hrs)--AST 101, 191, 192; BIO 102, 103, 150, 151, 204, 208, 209; BSL 109, 110, 116, 212; CHE 104, 105, 106, 107, 115; CHM 100, 101, 104, 105, 107; GEO 101, 111; PHY 151, 152, 153, 160, 201, 203, 210, 211, 212, 213, 232, 241, 242; PH 161, 152, 171, 217

Social Interaction (3 hrs)--PY 110 or SOC 101

Writing/Accessing Information (3 hrs)--ENG 101

COURSE REQUIREMENTS BY JOB TITLE

Electrical Technology | **Electrical Technology--** | **46.0302**

Industrial Electrician Option | **73** | **Credit**

Associate of Applied Science Degree | **1785** | **Total**

Course Number	Title	Clock Hours	Credit Hours	Type Class
CPU 100	INTRODUCTION TO COMPUTERS (CIP CODE: 11)	45	3.0	L
EET 108	ELECTRICAL CIRCUIT ANALYSIS (CIP CODE: 15)	90	6.0	L
EET 109	ELECTRICAL CIRCUIT ANALYSIS LAB (CIP CODE: 15)	180	4.0	S
EET 114	ELECTRONIC DEVICES AND CIRCUITS (CIP CODE: 15)	90	6.0	L
EET 115	ELECTRONIC DEVICES AND CIRCUITS LAB (CIP CODE: 15)	180	4.0	S
EET 150	TRANSFORMERS (CIP CODE: 15)	30	2.0	L
EET 151	TRANSFORMERS LAB (CIP CODE: 15)	45	1.0	S
EET 250	NATIONAL ELECTRICAL CODE (CIP CODE: 46)	60	4.0	L
EET 254	ELECTRICAL CONSTRUCTION (CIP CODE: 46)	45	3.0	L
EET 255	ELECTRICAL CONSTRUCTION LAB (CIP CODE: 46)	180	4.0	S
EET 264	ROTATING MACHINERY (CIP CODE: 15)	30	2.0	L
EET 265	ROTATING MACHINERY LAB (CIP CODE: 15)	90	2.0	S
EET 270	ELECTRICAL MOTOR CONTROLS I (CIP CODE: 15)	30	2.0	L
EET 271	ELECTRICAL MOTOR CONTROLS I LAB (CIP CODE: 15)	90	2.0	S
EET 272	ELECTRICAL MOTOR CONTROLS II (CIP CODE: 15)	30	2.0	L
EET 273	ELECTRICAL MOTOR CONTROLS II LAB (CIP CODE: 15)	90	2.0	S
EET 276	PROGRAMMABLE LOGIC CONTROLLERS (CIP CODE: 15)	30	2.0	L
EET 277	PROGRAMMABLE LOGIC CONTROLLERS LAB (CIP CODE: 15)	90	2.0	S
FPX 100	FLUID POWER (CIP CODE: 15)	45	3.0	L

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COURSE REQUIREMENTS BY JOB TITLE

Electrical Technology	**Electrical Technology--**			**46.0302**
	Industrial Electrician Option	**73**		**Credit**
	Associate of Applied Science Degree	**1785**		**Total**
FPX 101	FLUID POWER LAB (CIP CODE: 15)	90	2.0	S
MTH 150	TECHNICAL ALGEBRA I (CIP CODE: 27)	45	3.0	L
MTH 160	TECHNICAL ALGEBRA II (CIP CODE: 27)	45	3.0	L
PHX 150	INTRODUCTORY PHYSICS (CIP CODE: 40)	45	3.0	L
TEC 200	TECHNICAL COMMUNICATIONS (CIP CODE: 23)	45	3.0	L
WPP 200	WORKPLACE PRINCIPLES (CIP CODE: 32)	45	3.0	L

(None)

Clock Hours: 0 **Credit** 0 **Type** L

Clock	**Total**	1785	**L =**	750	**S =**	1035	**E =**	0
Credit	**Total**	73	**L =**	50	**S =**	23	**E =**	0

EET 104, 105, 106, & 107 may be substituted for EET 108 & 109
EET 154, 155, 252, & 253 may be substituted for EET 254 & 255
EET 266 & 267 may be substituted for EET 150, 151, 264, & 265
EET 268 & 269 may be substituted for EET 264, 265, 270, & 271
EET 274 & 275 may be substituted for EET 270, 271, 272, & 273
EET 278 & 279 may be substituted for EET 272, 273, 276, & 277
EET 110, 111, 112, & 113 may be substituted for EET 114 & 115
TQX 110 may be substituted for WPP 200
CIS 100 may be substituted for CPU 100

Non-transferable General Education:
TEC 200, MTH 150, MTH 160, PHX 150, WPP 200

Transferable General Education:
Humanities/Oral Communications (3 hrs)--COM 181

Mathematics (3 hrs)--MA or MT 109 or any higher level math course

Science (3 hrs)--AST 101, 191, 192; BIO 102, 103, 150, 151; BIO 204, 208, 209; BSL 109, 110, 116, 212; CHE 104, 105, 106, 107, 115; CHM 100, 105, 106, 107, 115; CHM 100, 101, 104, 105, 107; GLY 101, 111; PHY 151, 152, 153, 160, 201, 203, 210, 211, 212, 213, 231, 232, 241, 242; PH 161, 162, 171, 217

Social Interaction (3 hrs)--PY 110 or SOC 101

Writing/Accessing Information (3 hrs)--ENG 101

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COURSE REQUIREMENTS BY JOB TITLE

Electrical Technology **Electrician Apprentice** **824.261-014**

		38		**Credit**
	Certificate	**960**		**Total**
Course Number	**Title**	**Clock Hours**	**Credit Hours**	**Type Class**
EET 108	ELECTRICAL CIRCUIT ANALYSIS (CIP CODE: 15)	90	6.0	L
EET 109	ELECTRICAL CIRCUIT ANALYSIS LAB (CIP CODE: 15)	180	4.0	S
EET 150	TRANSFORMERS (CIP CODE: 15)	30	2.0	L
EET 151	TRANSFORMERS LAB (CIP CODE: 15)	45	1.0	S
EET 250	NATIONAL ELECTRICAL CODE (CIP CODE: 46)	60	4.0	L
EET 254	ELECTRICAL CONSTRUCTION (CIP CODE: 46)	45	3.0	L
EET 255	ELECTRICAL CONSTRUCTION LAB (CIP CODE: 46)	180	4.0	S
EET 264	ROTATING MACHINERY (CIP CODE: 15)	30	2.0	L
EET 265	ROTATING MACHINERY LAB (CIP CODE: 15)	90	2.0	S
EET 270	ELECTRICAL MOTOR CONTROLS I (CIP CODE: 15)	30	2.0	L
EET 271	ELECTRICAL MOTOR CONTROLS I LAB (CIP CODE: 15)	90	2.0	S
MTH 150	TECHNICAL ALGEBRA I (CIP CODE: 27)	45	3.0	L
MTH 170	CIRCUIT MATHEMATICS (CIP CODE: 27)	45	3.0	L

(None)

Clock Hours: **Credit** 0 **Type** L

Clock	**Total**	960	**L =**	375	**S =**	585	**E =**	0
Credit	**Total**	38	**L =**	25	**S =**	13	**E =**	0

EET 154, 155, 252, 253 may be substituted for EET 254, 255
EET 104, 105, 106, 107 may be substituted for EET 108, 109
EET 268, 269 may be substituted for EET 264, 265, 270, 271
EET 266, 267 may be substituted for EET 150, 151, 264, 265
EET 160 may be substituted for MTH 150, 170
MTH 175 may be substituted for MTH 150 and MTH 170

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COURSE REQUIREMENTS BY JOB TITLE

Electrical Technology **Electrician Helper** **829.684-022**

		9	**Credit**
	Certificate	**195**	**Total**

Course Number	**Title**	**Clock Hours**	**Credit Hours**	**Type Class**
EET 104	DIRECT CURRENT CIRCUITS (CIP CODE: 46)	45	3.0	L
EET 105	DIRECT CURRENT CIRCUITS LAB (CIP CODE: 15)	90	2.0	S

ADDITIONAL REQUIREMENTS Choose a minimum of 4 credit hours from the IE Core or any EET course

Clock Hours: 60 **Credit** 4 **Type** L

Clock	**Total**	195	**L =**	105	**S =**	90	**E =**	0
Credit	**Total**	9	**L =**	7	**S =**	2	**E =**	0

EET 108, 109 may be substituted for EET 104, 105

Note: After the successful completion of 7 weeks of instruction in EET 108, 109 the student will receive credit for EET 104, 105

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COURSE REQUIREMENTS BY JOB TITLE

Electrical Technology **Industrial Electrician** **829.261-018**

		66		**Credit**
	Diploma	**1800**		**Total**
Course Number	**Title**	**Clock Hours**	**Credit Hours**	**Type Class**
EET 108	ELECTRICAL CIRCUIT ANALYSIS (CIP CODE: 15)	90	6.0	L
EET 109	ELECTRICAL CIRCUIT ANALYSIS LAB (CIP CODE: 15)	180	4.0	S
EET 114	ELECTRONIC DEVICES AND CIRCUITS (CIP CODE: 15)	90	6.0	L
EET 115	ELECTRONIC DEVICES AND CIRCUITS LAB (CIP CODE: 15)	180	4.0	S
EET 150	TRANSFORMERS (CIP CODE: 15)	30	2.0	L
EET 151	TRANSFORMERS LAB (CIP CODE: 15)	45	1.0	S
EET 199	COOPERATIVE EDUCATION PROGRAM (CIP CODE: 15)	150	2.0	E
EET 250	NATIONAL ELECTRICAL CODE (CIP CODE: 46)	60	4.0	L
EET 254	ELECTRICAL CONSTRUCTION (CIP CODE: 46)	45	3.0	L
EET 255	ELECTRICAL CONSTRUCTION LAB (CIP CODE: 46)	180	4.0	S
EET 264	ROTATING MACHINERY (CIP CODE: 15)	30	2.0	L
EET 265	ROTATING MACHINERY LAB (CIP CODE: 15)	90	2.0	S
EET 270	ELECTRICAL MOTOR CONTROLS I (CIP CODE: 15)	30	2.0	L
EET 271	ELECTRICAL MOTOR CONTROLS I LAB (CIP CODE: 15)	90	2.0	S
EET 272	ELECTRICAL MOTOR CONTROLS II (CIP CODE: 15)	30	2.0	L
EET 273	ELECTRICAL MOTOR CONTROLS II LAB (CIP CODE: 15)	90	2.0	S
EET 276	PROGRAMMABLE LOGIC CONTROLLERS (CIP CODE: 15)	30	2.0	L
EET 277	PROGRAMMABLE LOGIC CONTROLLERS LAB (CIP CODE: 15)	90	2.0	S
FPX 100	FLUID POWER (CIP CODE: 15)	45	3.0	L

COURSE REQUIREMENTS BY JOB TITLE

Electrical Technology **Industrial Electrician** **829.261-018**

		66		**Credit**
	Diploma	**1800**		**Total**
FPX 101	FLUID POWER LAB (CIP CODE: 15)	90	2.0	S
MTH 150	TECHNICAL ALGEBRA I (CIP CODE: 27)	45	3.0	L
MTH 170	CIRCUIT MATHEMATICS (CIP CODE: 27)	45	3.0	L

ADDITIONAL REQUIREMENTS Select 1 CPU class from the IE Core

Clock Hours: 45 **Credit** 3 **Type** L

Clock	**Total**	1800	**L =**	615	**S =**	1035	**E =**	150
Credit	**Total**	66	**L =**	41	**S =**	23	**E =**	2

EET 104, 105, 220 and 106 may be substituted for EET 108 and 109
EET 154, 155, 252 and 253 may be substituted for EET 254 and 255
EET 266, 267, may be substituted for EET 150, 151, 264 and 265
EET 268, 269, may be substituted for EET 264, 265, 270 and 271
EET 274, 275, may be substituted for EET 270, 271, 272 and 273
EET 278, 279, may be substituted for EET 272, 273, 276 and 277
EET 110, 111, 112, 113, may be substituted for EET 114 and 115
MTH 175 may be substituted for MTH 150 and MTH 170
EET 160 may be substituted for MTH 150, 170 (if this substitution is used, a minimum of 8 credit hours are required from the general education core

COURSE REQUIREMENTS BY JOB TITLE

Electrical Technology **Residential Electrician** **824.261-001**

		17		**Credit**
	Certificate	**435**		**Total**
Course Number	**Title**	**Clock Hours**	**Credit Hours**	**Type Class**
EET 108	ELECTRICAL CIRCUIT ANALYSIS (CIP CODE: 15)	90	6.0	L
EET 109	ELECTRICAL CIRCUIT ANALYSIS LAB (CIP CODE: 15)	180	4.0	S
EET 154	ELECTRICAL CONSTRUCTION I (CIP CODE: 46)	30	2.0	L
EET 155	ELECTRICAL CONSTRUCTION I LAB (CIP CODE: 46)	90	2.0	S
MTH 150	TECHNICAL ALGEBRA I (CIP CODE: 27)	45	3.0	L

(None)

Clock Hours: **Credit** 0 **Type** L

Clock	**Total**	435	**L =**	165	**S =**	270	**E =**	0
Credit	**Total**	17	**L =**	11	**S =**	6	**E =**	0

EET 104, 105, 106, 107 may be substituted for EET 108, 109
EET 160 may be substituted for MTH 150
EET 254, 255 may be substituted for EET 154, 155

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COURSE REQUIREMENTS BY JOB TITLE

Electrical Technology **Telecommunications Service Technician***

Certificate

17 **Credit**
375 **Total**

Course Number	Title	Clock Hours	Credit Hours	Type Class
CPU 299	INDUSTRIAL COMPUTER APPLICATIONS (CIP CODE: 11)	45	3.0	L
FEX 100	FUNDAMENTALS OF ELECTRICITY FOR NON-MAJORS (CIP CODE: 47)	45	3.0	L
TELE 100	MECHANICS OF TELEPHONY* (CIP CODE: 47)	105	3.0	L,S
TELE 101	BASIC INSTALLATION AND MAINTENANCE* (CIP CODE: 47)	105	3.0	L,S
TELE 102	SAFETY IN THE WORKPLACE* (CIP CODE: 47)	30	2.0	L
WPP 200	WORKPLACE PRINCIPLES (CIP CODE: 32)	45	3.0	L

(None)

Clock Hours: 0 **Credit** 0 **Type** L

Clock	**Total**	375	**L =**	195	**S =**	180	**E =**	0
Credit	**Total**	17	**L =**	13	**S =**	4	**E =**	0

This certificate is approved on a 1-year pilot basis awaiting curriculum approval.

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