

## Duty/Task Crosswalk

This duty/task crosswalk is based on the Oklahoma Duty/Task List for the Electrical Trades, Residential Electrical Assistant, and can be used as a cross-reference in other states.

Abbreviations:

FA—Focus Assignment

AS—Assignment Sheet

JS—Job Sheet

Skill Code	Skill Description	Unit #	Specific Reference
E.02	Inventory equipment and supplies	2, 5, 6 8-17	
F.01	Construct/analyze/install series circuits	10	Objectives 4-6
F.03	Draw series circuit and calculate circuit values	10	AS 1-9
F.04	Construct/analyze/install parallel circuits	10	Objectives 7&8
F.06	Draw parallel circuit and calculate circuit values	10	AS 10-12
F.07	Construct/analyze/install series-parallel circuits	10	Objective 9
F.09	Draw series-parallel circuits and calculate circuit values	10	AS 13-15
F.10	Set up and operate for DC circuits: – ohmmeter – voltage tester	6 6	JS 5&6 JS 5&6
G.01	Identify AC sources	11	FA
G.02	Analyze and apply principles of transformers to AC	11	Objectives 7-10
G.05	Construct/analyze/install polyphase circuits	11	Objective 11
G.06	Troubleshoot polyphase circuits	6	JS 7
G.08	Test capacitors in an AC circuit	11	AS 1&2
G.15	Set up and operate for AC circuits – volt amp meter – ohmmeter –voltage tester	6/11 6 6	JS 8&9/Objective 17 JS 5&7 JS 5&7
H.01	Demonstrate knowledge of Article 90	7	AS 1
H.02	Demonstrate knowledge of Article 100	7	AS 3
I.01	Calculate and balance the total load per phase	11	Objective 17
I.03	Calculate individual circuits	13	AS 7
I.04	Calculate the load in volt-amps and load current in amps	11	AS 1
I.07	Perform transformer and motor calculations	13	AS 16
I.08	Calculate voltage drop	11	AS 2

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Skill Code	Skill Description	Unit #	Specific Reference
I.09	Calculate conductors – de-rating – correction factors	13/17 13 13/15	AS 2/Objectives 7&8 AS 5&6 AS 3&4/AS 1
I.11	Calculate over-current protection	15	AS 1, JS 1
I.12	Perform calculations using Ohm's Law	9 10	Objectives 9-15, AS 2-5 AS 1, 2, 3, 6, 7, 8, 11, 16
J.02	Install main service panels	16	AS 2
J.04	Install main service disconnects	16	AS 1
J.05	Install circuit breakers in panels	16	AS 2
K.02	Install recessed fixture housings in ceilings	17	JS 7
K.03	Install bar-hanger mounted box	11/17	JS 1-4/JS 7
K.05	Install flush mount switch and outlet box in – lathe and plaster wall – paneled wall – masonry wall	17 17 17	JS 1-3 JS 4 JS 5&6
K.07	Install octagon outlet box	11/17	JS 1-4/JS 7
L.03	Rough-in circuits and other raceways in conduits	17	AS 1
L.05	Connect circuits to circuit breaker panels	16	JS 1&2
L.06	Rough-in circuits to outlet boxes	16	JS 3
L.07	Rough-in cables between existing boxes and newly installed boxes	17	JS 8-10
L.08	Rough in a circuit for an outlet controlled with – three-way switches and four-way switches – feed to the device box	11 11 11	Objective 18 JS 3&4 JS 1&2
L.09	Rough-in low-voltage circuits – door chime system	14	JS 1
L.10	Rough-in cable for general purpose branch circuits – receptacle outlet	16	JS 3
L.11	Make splices – using mechanical-type connectors – wire nuts	13 12 13	Objective 4 JS 1, 2, 4, 5 JS 4
L.13	Make terminations	13	JS 3
L.15	Install panels and subpanels	16	JS 2
L.20	Install conduits, cables, raceways, and equipment	13	Objective 10
L. 22	Rough-in thermostat wiring	13	Objectives 5-8
N.20	Install smoke and CO detectors	14	JS 2
P.02	Install wireway – lay-in – underfloor	17 17 17	Objectives 3-5 JS 8 & 10 JS 9

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Skill Code	Skill Description	Unit #	Specific Reference
T.02	Troubleshoot/install/connect/replace door chime systems	14	AS 1, JS 1
T.05	Troubleshoot/install connect/repair/replace emergency warning systems – fire	14	AS 2, JS 2
U.02	Demonstrate appropriate interpersonal skills	All	
U.03	Maintain self-esteem in self and others	All	
U.04	Recognize the importance of team work and participate as a team member	All	
U.05	Maintain professional respect for co-workers and supervisor	All	
U.06	Demonstrate professionalism	All	
U.07	Practice critical thinking skills to workplace situations	All	
U.08	Maintain satisfactory attendance	All	
U.10	Function within the organizational structure	All	
U.11	Cooperate with co-workers in the completion of assignments	All	
U.12	Practice self-management (time management) techniques	All	
U.13	Practice deductive and inductive reasoning skills	All	
U.15	Employ listening skills	All	
U.16	Compose written communication legibly using correct grammar, spelling, and format	1 2 12 13 14	FA, AS 1-2 AS 4 AS 10 FA FA
U.17	Demonstrate ability to interpret and follow written directions and information	All	
U.18	Demonstrate ability to interpret and follow oral directions	All	
U.19	Use job-related terminology, symbols, and abbreviations	All	
U.21	Use effective communication techniques	All	
U.22	Use verbal and non-verbal communication techniques	All	
U.23	Apply behavior management techniques to workplace	All	
U.24	Identify personal and work related goals and monitor progress – professional goals	1 14	FA, AS 1-2 FA
U.25	Respond to compliments, complaints, conflicts, and criticism appropriately	All	

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Skill Code	Skill Description	Unit #	Specific Reference
U.27	Retrieve, recognize, and calculate common statistical formulas – addition, subtraction, multiplication, and division of – whole numbers  – fractions – decimals  – percentages  – measurements – use of calculator – basic geometry – application of formulas – word problems	4 8 9 10 11 13 15 17 4 4 7 9 10 11 13 15 17 4 15 5/6 10 6 4 2 4 6 7 9 10 11 15 16 17	AS 1-4 AS 1 AS 2-5 AS 1-16 AS 1&2 AS 2, 3, 5, 6 AS 1 AS 1 AS 5-9 AS 10-13 AS 6 AS 2, 4, 5 AS 8, 9, 12, 14, 16 AS 1&2 AS 2-6 AS 1 AS 1 AS 14&15 AS 1 AS 1/AS 1 AS 1-15 AS 1 AS 16 AS 1, 4 AS 1-4, 7-13, 15 AS 1 AS 4&5 AS 5 AS 1-3 AS 1&2 AS 1 AS 1 AS 1
U.28	Demonstrate negotiation skills – solve everyday human relations problems	All	
U.29	Demonstrate leadership skills – employ leadership skills	All	
U.30	Demonstrate career development skills – investigate an occupation – explore career opportunities – compare career options	1 1 1/14	FA, AS 1 AS 2 AS 1/FA