

Electrician Common Core Harmonized (2020) Level 1

STANDARDIZED LEVEL EXAM (SLE) BREAKDOWN

The following table shows the number of questions per General Area of Competency (GAC) and Competency on the *Electrician Common Core Harmonized (2020) Level 1 SLE*.

Number of questions on each exam: 85

Level 1 GAC/Competency	#
A. APPLY CIRCUIT CONCEPTS	40
A1. Use electrical circuit concepts	13
A2. Analyze DC circuits	13
A3. Analyze principles of electromagnetism	8
A6. Analyze electronic circuits	6
B. PERFORM SAFETY-RELATED FUNCTIONS	6
B1. Use personal protection equipment (PPE) and safety equipment	2
B2. Maintain safe work environment	2
B3. Perform lock-out and tag-out procedures	2
C. USE TOOLS AND EQUIPMENT	3
C4. Use measuring and testing equipment	3
D. ORGANIZE WORK	9
D1. Interpret plans, drawings and specifications	7
D2. Use Canadian Electrical Code (CEC)	2
G. USE COMMUNICATION AND MENTORING TECHNIQUES	1
G2. Use mentoring techniques	1

Level 1 GAC/Competency	#
H. INSTALL AND MAINTAIN CONSUMER/SUPPLY SERVICES AND METERING EQUIPMENT	4
H1. Install single-phase consumer/supply services and metering equipment	3
H3. Maintain single-phase services and metering equipment	1
I. INSTALL AND MAINTAIN PROTECTION DEVICES	3
I2. Install ground fault, arc fault and surge protection devices	3
J. INSTALL AND MAINTAIN LOW VOLTAGE DISTRIBUTION SYSTEMS	2
J1. Install low voltage distribution equipment	2
L. INSTALL AND MAINTAIN BONDING, GROUNDING AND GROUND FAULT DETECTION SYSTEMS	2
L1. Install grounding and bonding systems	2
Q. INSTALL AND MAINTAIN RACEWAYS, CABLES AND ENCLOSURES	5
Q1. Install conductors and cables	2
Q2. Install raceways, boxes and fittings	3
R. INSTALL AND MAINTAIN BRANCH CIRCUITRY	8
R1. Install luminaires	2
R2. Install wiring devices	3
R3. Install lighting controls	2
R4. Install lighting standards	1
V. INSTALL AND MAINTAIN MOTOR STARTERS AND CONTROLS	0
V1. Install motor starters and controls	0
V2. Maintain motor starters and controls	0
AA. INSTALL AND MAINTAIN COMMUNICATION SYSTEMS	2
AA1. Install voice/data/video (VDV) systems	2
Total:	85