

Winder Electrician

CERTIFICATE OF QUALIFICATION EXAM BREAKDOWN

The following table shows the number of questions per General Area of Competency (GAC) and Competency on the *Winder Electrician Certificate of Qualification Exam*.

Number of questions on each exam: 100

Certificate of Qualification GAC/Competency	#
A. USES TOOLS SAFELY AND SKILFULLY	4
A1. Uses hand and power tools, compressed air and pneumatic tools safely and skilfully	3
A2. Uses shop tools safely and skilfully	1
B. PERFORMS WELDING, BRAZING AND SOLDERING OPERATIONS	3
B1. Performs welding operations	1
B2. Performs brazing and soldering operations	2
C. PERFORMS OCCUPATIONAL RELATED FUNCTIONS	6
C1. Moves/lifts equipment	3
C2. Performs finishing	1
C3. Commissions equipment	2
D. ASSESSES SYSTEMS AND EQUIPMENT	5
D1. Performs visual inspection of system	0
D2. Assesses condition of equipment	1
D3. Selects system measuring/testing equipment	2
D4. Conducts system measurements/tests and documents	0
D5. Analyzes results of system check	2
E. CHECKS MECHANICAL, ELECTRICAL AND ELECTRONIC COMPONENTS AND SYSTEMS	9
E1. Performs visual inspection of components	2
E2. Disassembles defective components	2
E3. Selects appropriate measuring/testing equipment	1
E4. Conducts measurements/tests and documents	2
E5. Evaluates results	1
E6. Removes defective part(s)	1
F. REPAIRS/REPLACES DEFECTIVE MECHANICAL, ELECTRICAL AND ELECTRONIC PART(S)/COMPONENTS	11

Winder Electrician: Certificate of Qualification Exam Breakdown

January 1, 2023

Certificate of Qualification GAC/Competency	#
F1. Disassembles defective part(s) if required	2
F2. Assesses work to be performed	3
F3. Replaces part(s)/components	2
F4. Repairs and assembles part(s)/components	2
F5. Tests part(s)/components for correct operation	1
F6. Installs part(s)/component(s) into system	1
G. CHECKS FOR CORRECT SYSTEM OPERATION	7
G1. Performs final system inspection	1
G2. Operates systems	3
G3. Conducts measurements/test(s) on system and documents	1
G4. Evaluates system results	2
H. TESTS SYSTEMS AND EQUIPMENT	4
H1. Selects appropriate measuring/testing system procedures	1
H2. Performs tests on systems	1
H3. Evaluates results on newly-installed equipment	2
I. DOCUMENTS WORK IN PROGRESS	2
I1. Uses correct forms and/or charts	0
I2. Records all visually defective components or missing components	0
I3. Records all nameplate data	1
I4. Records all replacement components/parts	1
J. RECONDITIONS AND REPAIRS ROTATING EQUIPMENT	32
J1. Rewinds equipment	24
J2. Bands armature	2
J3. Machines or replaces rings and/or commutators	3
J4. Balances rotating parts	3
K. CHECKS AND REPAIRS STATIONARY EQUIPMENT	12
K1. De-energizes stationary equipment	3
K2. Conducts oil tests	0
K3. Drains/fills/filters oil	0
K4. Repairs stationary equipment	9
L. ASSEMBLES ELECTRICAL/ELECTRONIC CONTROL PANEL	5
L1. Determines location of components, installs and wires the same	5
Total:	100