

Assessment Blueprint

Assessment Overview

Sector	Construction
Job Role	Assistant Electrician - LV
QP Code	CON/Q0602
Version	4.0
NSQF level	3
No. of Questions (Theory + Practical+Viva)	39+8=47
Duration (Minutes)	Theory: 60 Minutes Viva: 60 Minutes Practical: 360 Minutes
Acceptable level of variance in duration and no. of Questions Per NOS	+ -10%
Language	English

INSTRUCTIONS

1. Total duration of the examination is 480 Minutes (Theory: 60 Minutes + Viva: 60 Minutes + Practical: 360 Minutes)

Sample Questions - Theory

S.No.	NOS Code	NOS Details	Question Type	Question	Option 1 (A)	Option 2 (B)	Option 3 (C)	Option 4 (D)	Correct Answer	Marks Assigned for the Question
1	CON/N0602	Handle hand and power tools relevant to construction electrical works	MCQ Type	Which hand tool is commonly used to tighten electrical terminal screws?	Chisel	Pliers	Hammer	Screwdriver	D	6
2				Which tool is used to remove insulation from electrical wires?	Spanner	Pipe wrench	Hand saw	Wire stripper	D	6
3				Which power tool is commonly used for drilling holes during electrical installation?	Angle grinder	Electric drill	Welding machine	Air compressor	B	6
4				What should be checked before using an electrical power tool?	Tool and cable condition	Tool colour	Handle size	Storage location	A	6
5				Why should insulated tools be used for electrical work?	To improve tool speed	To increase wire length	To reduce electric shock risk	To reduce tool weight	C	6
6	CON/N0603	Install temporary lighting arrangement at construction sites	MCQ Type	What should be checked before installing temporary lighting at a construction site?	Cement quantity	Wall colour	Electrical supply	Floor finish	C	6
7				Which equipment is commonly used to provide temporary lighting at construction sites?	Masonry trowel	LED work light	Pipe wrench	Hand saw	B	6
8				Why should temporary lighting cables be properly secured at the site?	To prevent trip hazards	To increase cable length	To change light colour	To reduce voltage	A	6
9				What should be done before connecting a temporary lighting circuit?	Check cable connections	Remove earth wire	Increase supply voltage	Touch the terminals	A	6
10				Which device can provide protection against earth leakage in temporary lighting circuits?	Junction box	Hammer	Contactors	RCCB	D	6
11	CON/N0604	Assist in LV (Low Voltage) electrical wiring at permanent structures	MCQ Type	What should be checked before starting LV wiring in a permanent structure?	Wall colour	Wiring diagram	Floor finish	Paint brand	B	6
12				Which tool is commonly used to remove insulation from electrical wires?	Claw hammer	Pipe wrench	Wire stripper	Masonry trowel	C	6
13				Why should electrical wires be properly secured during installation?	To change wire colour	To increase wire length	To maintain safe wiring	To reduce wall height	C	6
14				What should be done before working on an LV electrical circuit?	Switch off the supply	Increase the voltage	Remove the earth wire	Connect extra loads	A	6
15				Which device helps protect an LV circuit from excessive current?	Cable gland	Junction box	MCB	Switchboard	C	6
16	CON/N0605	Assemble, install and maintain temporary LV electrical panels (distribution boards) at construction site	MCQ Type	What should be checked before installing a temporary LV distribution board?	Floor finish	Paint colour	Wall height	Panel condition	D	6
17				Which device protects a distribution board circuit from excessive current?	Terminal block	Junction box	Cable gland	MCB	D	6
18				Why should a temporary distribution board be properly earthed?	To reduce shock risk	To increase voltage	To reduce cable length	To increase load	A	6
19				What should be done before maintaining a temporary distribution board?	Remove the earth	Increase the voltage	Switch off the supply	Touch the terminals	C	6
20				What should be checked regularly to maintain a temporary distribution board safely?	Panel colour	Cable connections	Board weight	Label size	B	6
21	CON/N9001	Work according to personal health, safety and environment protocols at construction site	MCQ Type	Which PPE should an electrician wear to protect the head at a construction site?	Cotton cap	Safety helmet	Cloth scarf	Sun hat	B	6
22				Why should insulated gloves be used during electrical work?	To increase wire length	To increase voltage	To improve grip only	To reduce shock risk	D	6
23				What should be done before working on a temporary electrical panel?	Remove the earth wire	Increase the voltage	Isolate the power supply	Touch the terminals	C	6
24				Where should electrical waste such as damaged cables be placed?	Working pathway	Designated waste area	Open floor	Material pile	B	6
25				What should an electrician follow to maintain safety at a construction site?	Personal shortcuts	Site safety procedures	Unplanned methods	Informal practices	B	6
26	CON/N8001	Work effectively in a team to deliver desired results at the workplace	MCQ Type	Which skill helps an electrician work effectively with team members?	Driving	Welding	Painting	Communication	D	6
27				Why should an electrician communicate with the supervisor before starting work?	To delay the task	To change the work plan	To understand instructions	To select another job	C	6
28				What should a worker do when a team member needs help?	Provide assistance	Leave the site	Stop the task	Change the assignment	A	6
29				How can a team complete electrical work efficiently?	By working separately	By coordinating tasks	By delaying work	By changing instructions	B	6
30				What should team members do when responsibilities are assigned?	Exchange all duties	Coordinate their work	Work without planning	Stop communication	B	6
31	CON/N8002	Plan and organize work to meet expected outcomes	MCQ Type	What should an electrician identify before starting an assigned work task?	Worker uniform	Wall colour	Tool brand	Work requirements	D	6
32				Why should required tools and materials be prepared before starting work?	To change the work location	To increase material quantity	To complete work efficiently	To reduce team size	C	6
33				Which activity helps an electrician complete work within the planned time?	Scheduling tasks	Changing tasks	Delaying work	Ignoring deadlines	A	6
34				What should be considered when organizing electrical work at a construction site?	Available resources	Wall decoration	Worker clothing	Site appearance	A	6
35				How can an electrician achieve the expected outcome of assigned work?	By changing tasks frequently	By following a work plan	By delaying activities	By working without coordination	B	6
36	DGT/VSQ/N0101	Employability Skills (30 Hours)	MCQ Type	Which skill helps an electrician communicate effectively with supervisors and coworkers?	Driving skills	Cooking skills	Painting skills	Communication skills	D	5
37				Why is time management important for completing electrical work on schedule?	It reduces work quality	It increases salary	It helps meet deadlines	It changes job duties	C	5
38				What should a worker do when facing a problem during workplace tasks?	Blame coworkers	Leave the task	Find a suitable solution	Delay the work	C	5
39				Which behaviour helps maintain positive relationships with coworkers at the workplace?	Respectful behaviour	Rude behaviour	Careless behaviour	Unfriendly behaviour	A	5

Sample Questions - Practical

S.No.	NOS Code	NOS Details	Question Type	Question	Tasks to be Performed	Marks Assigned for the Question
1	CON/N0602	Handle hand and power tools relevant to construction electrical works	Structured Practical Task	Demonstrate how you would use a combination plier for electrical work.	Step 1: Inspect the plier for damage, insulation condition Step 2: Wear required PPE and ensure the work area is safe Step 3: Select the correct plier for the intended electrical work Step 4: Hold the insulated handles firmly and position the plier correctly Step 5: Cut, grip, or bend the conductor using controlled force Step 6: Inspect the completed work and clean and store the tool	70
2	CON/N0603	Install temporary lighting arrangement at construction sites	Structured Practical Task	Demonstrate how you would install temporary lighting for a construction access area.	Step 1: Identify access routes requiring temporary illumination Step 2: Select suitable weather-resistant lights and protective enclosures Step 3: Plan cable routes away from vehicle and pedestrian traffic Step 4: Mount lighting fixtures securely at appropriate locations Step 5: Connect the lighting circuit through suitable protective devices Step 6: Test illumination and inspect the installation before use	70
3	CON/N0604	Assist in LV (Low Voltage) electrical wiring at permanent structures	Structured Practical Task	Demonstrate how you would assist in wiring socket outlets in a permanent structure.	Step 1: Check the electrical drawing and identify socket locations Step 2: Inspect cables, boxes, sockets, tools, and required materials Step 3: Isolate the circuit and verify safe working conditions Step 4: Install the socket boxes and route the required cables Step 5: Connect phase, neutral, and protective conductor Step 6: Assist with testing and confirm proper operation	70
4	CON/N0605	Assemble, install and maintain temporary LV electrical panels (distribution boards) at construction site	Structured Practical Task	Demonstrate how you would assemble a temporary LV distribution board.	Step 1: Check the approved layout, panel rating, components Step 2: Inspect the enclosure, MCBs, RCCBs, busbars, terminals Step 3: Mount the protective devices and components in the enclosure Step 4: Connect internal wiring according to the approved wiring diagram Step 5: Check terminal tightness, cable identification, earthing Step 6: Inspect and test the assembled panel before installation	70
5	CON/N9001	Work according to personal health, safety and environment protocols at construction site	Structured Practical Task	Demonstrate how you would work safely around temporary electrical installations.	Step 1: Identify temporary panels, cables, sockets, and electrical work Step 2: Inspect visible cables and connections for damage and safety Step 3: Maintain safe clearance from exposed electrical components Step 4: Protect cables from water, sharp edges, and other hazards Step 5: Report damaged electrical installations to the responsible person Step 6: Continue work only after the electrical area is confirmed safe	70
6	CON/N8001	Work effectively in a team to deliver desired results at the workplace	Structured Practical Task	Demonstrate how you would assist a senior electrician during electrical installation.	Step 1: Listen carefully to the senior electrician's instructions Step 2: Clarify the assigned activity and required work procedures Step 3: Arrange the required tools, cables, and electrical materials Step 4: Perform the assigned work according to the approved wiring diagram Step 5: Communicate work progress, material shortages, and safety concerns Step 6: Complete the task and support the senior electrician	70
7	CON/N8002	Plan and organize work to meet expected outcomes	Structured Practical Task	Demonstrate how you would organize tools and materials before starting electrical work.	Step 1: Review the drawing and identify required tools and materials Step 2: Check the availability and condition of cables and materials Step 3: Inspect hand tools, power tools, and testing instruments Step 4: Arrange materials according to the planned work sequence Step 5: Keep tools and materials safely accessible at the work area Step 6: Confirm work readiness with the senior electrician	70
8	DGT/VSQ/N0101	Employability Skills (30 Hours)	Structured Practical Task	Demonstrate how you would use basic digital tools for workplace documentation.	Step 1: Select the appropriate digital device or application Step 2: Enter required workplace information accurately Step 3: Record electrical tasks, materials, test results, or safety observations Step 4: Review the information for accuracy and completeness Step 5: Save the document using an appropriate file name and location Step 6: Submit or share the documentation through the required system	30