

Assessment Blueprint

Assessment Overview

Sector	Construction
Job Role	Foreman - Electrician works (Construction)
QP Code	CON/Q0604
Version	4.0
NSQF level	5
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)

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/N0611	Monitor regular electrical works (installation, maintenance and repairing) at a construction site	MCQ Type	What should a Foreman check regularly during electrical installation work?	Floor finish	Wall colour	Cement quantity	Wiring and connections	D	6
2				Why should electrical maintenance work be monitored at construction sites?	To ensure safe operation	To increase cable length	To reduce equipment size	To change wire colour	A	6
3				What should be checked when electrical equipment develops a fault?	Paint condition	Faulty components	Machine colour	Floor level	B	6
4				Which document helps a Foreman verify electrical installation requirements?	Attendance sheet	Material invoice	Electrical drawing	Delivery note	C	6
5				What should a Foreman ensure after electrical repair work is completed?	Longer cables	Higher voltage	Safe equipment operation	More connections	C	6
6	CON/N0612	Establish electrical connections during erection of plant and heavy construction machineries	MCQ Type	What should be checked before making electrical connections to heavy construction machinery?	Paint thickness	Machine colour	Floor finish	Wiring diagram	D	6
7				Which device helps isolate the electrical supply during machinery installation?	Junction box	Isolator	Cable gland	Terminal block	B	6
8				Why should heavy construction machinery be properly earthed?	To increase machine speed	To increase voltage	To reduce shock risk	To reduce cable length	C	6
9				What should be checked before energizing newly connected machinery?	Floor height	Machine colour	Cable connections	Paint condition	C	6
10				Which equipment is commonly used to protect machinery circuits from excessive current?	Junction box	Cable tray	Conduit pipe	Circuit breaker	D	6
11	CON/N0613	Conduct permanent wiring and maintenance work in buildings	MCQ Type	What should be checked before starting permanent wiring work in a building?	Wiring diagram	Wall colour	Floor finish	Paint brand	A	6
12				Which tool is commonly used to remove insulation from electrical wires?	Pipe wrench	Wire stripper	Claw hammer	Masonry trowel	B	6
13				Why should electrical connections be properly tightened during permanent wiring?	To reduce voltage	To increase wire length	To change wire colour	To ensure reliable connections	D	6
14				What should be done before carrying out electrical maintenance work?	Touch the terminals	Increase the voltage	Remove the earth wire	Switch off the supply	D	6
15				Which device protects a building circuit from excessive current?	Conduit pipe	Cable gland	Junction box	MCB	D	6
16	CON/N9002	Manage workplace for safe and healthy work environment	MCQ Type	What should a Foreman ensure to maintain a safe workplace?	Blocked pathways	Loose materials	Proper housekeeping	Poor lighting	C	6
17				Why should construction pathways be kept clear and clean?	To prevent accidents	To increase workload	To store materials	To reduce work area	A	6
18				What should be provided when workers perform tasks with electrical hazards?	Appropriate PPE	Extra materials	More lighting	Additional tools	A	6
19				What should a Foreman do after identifying an unsafe workplace condition?	Move workers elsewhere	Leave it unchanged	Continue the task	Take corrective action	D	6
20				Which practice supports a healthy work environment at a construction site?	Waste accumulation	Proper waste disposal	Poor ventilation	Unclean work areas	B	6
21	CON/N7001	Plan, arrange and manage resources for execution of relevant work	MCQ Type	What should a Foreman identify before arranging resources for electrical work?	Worker uniform	Wall colour	Office furniture	Work requirements	D	6
22				Which resource should be arranged before starting electrical installation work?	Cleaning products	Decorative items	Office supplies	Required materials	D	6
23				Why should tools and equipment be arranged before beginning assigned work?	To improve work efficiency	To increase storage space	To change work location	To reduce team size	A	6
24				What should a Foreman consider when assigning workers to electrical tasks?	Worker clothing	Worker skills	Worker age	Worker location	B	6
25				How can a Foreman ensure resources are available when needed?	By changing tasks	By delaying orders	By planning resources	By reducing materials	C	6
26	CON/N8001	Work effectively in a team to deliver desired results at the workplace	MCQ Type	Which practice helps an electrical team complete assigned work effectively?	Unplanned working	Individual working	Delayed reporting	Clear communication	D	6
27				Why should a Foreman communicate work instructions clearly to team members?	To change responsibilities	To increase workload	To delay progress	To coordinate activities	D	6
28				What should a team member do when another worker needs assistance?	Provide support	Leave the workplace	Stop the activity	Change the assignment	A	6
29				How can team members achieve desired results at the construction site?	By delaying tasks	By working separately	By cooperating	By avoiding discussion	C	6
30				What should workers do when responsibilities are assigned by the Foreman?	Stop communication	Exchange all duties	Work without planning	Coordinate their tasks	D	6
31	CON/N8003	Supervise, monitor and evaluate performance of subordinates at workplace	MCQ Type	What should a Foreman check while monitoring an electrician's work performance?	Worker age	Uniform colour	Tool brand	Work quality	D	6
32				Why should a Foreman regularly supervise subordinate workers?	To increase working hours	To ensure proper work	To change job roles	To reduce teamwork	B	6
33				What should a Foreman do when a worker makes a repeated work error?	Change the worker's role	Ignore the error	Provide guidance	Stop all site work	C	6
34				Which factor helps evaluate the performance of electrical workers?	Tool colour	Personal appearance	Work completion	Lunch timing	C	6
35				What should a Foreman provide after evaluating a worker's performance?	Unclear instructions	Personal criticism	Constructive feedback	Extra workload	C	6
36	DGT/VSQ/N0101	Employability Skills (30 Hours)	MCQ Type	Which skill helps a Foreman communicate effectively with workers and supervisors?	Communication skills	Cooking skills	Painting skills	Driving skills	A	5
37				Why is time management important for a Foreman at the workplace?	It changes job duties	It increases salary	It reduces responsibilities	It helps meet deadlines	D	5
38				What should a Foreman do when facing a workplace problem?	Leave the workplace	Blame workers	Delay the task	Find a suitable solution	D	5
39				Which behaviour helps a Foreman maintain good relationships with team members?	Respectful behaviour	Rude behaviour	Careless behaviour	Unfriendly behaviour	A	5

S.No.	NOS Code	NOS Details	Question Type	Question	Tasks to be Performed	Marks Assigned for the Question
1	CON/N0611	Monitor regular electrical works (installation, maintenance and repairing) at a construction site	Structured Practical Task	Demonstrate monitoring LV cable installation work.	Step 1: Review electrical drawings, cable specifications, and safety protocols. Step 2: Check cable quality, size, route, tools, and PPE. Step 3: Observe cable laying, routing, support, and protection. Step 4: Check cable joints, terminations, identification, and labeling. Step 5: Verify testing results and correct identified installation issues. Step 6: Record work progress and report completion to the supervisor.	70
2	CON/N0612	Establish electrical connections during erection of plant and heavy construction machineries	Structured Practical Task	Demonstrate connecting three-phase supply to heavy machinery.	Step 1: Verify the machinery voltage, current, phase, and frequency. Step 2: Select suitable three-phase cable and protective devices. Step 3: Isolate the incoming supply before making connections. Step 4: Connect the three phases, neutral where required. Step 5: Check terminal tightness, earthing, cable identification. Step 6: Test the installation and conduct a controlled trial.	70
3	CON/N0613	Conduct permanent wiring and maintenance work in buildings	Structured Practical Task	Demonstrate maintaining permanent electrical wiring in buildings.	Step 1: Review maintenance records and identify the circuit. Step 2: Isolate the circuit and verify absence of electrical supply. Step 3: Inspect cables, switches, sockets, junction boxes, and components. Step 4: Identify loose connections, damaged components, and safety hazards. Step 5: Repair or replace defective components according to standards. Step 6: Test the circuit and record the completed maintenance work.	70
4	CON/N9002	Manage workplace for safe and healthy work environment	Structured Practical Task	Demonstrate managing workers' health and safety at workplace.	Step 1: Conduct a safety briefing before starting daily activities. Step 2: Ensure workers understand task hazards and control measures. Step 3: Check availability and proper use of required PPE. Step 4: Monitor safe working practices during electrical activities. Step 5: Address reported hazards, incidents, and worker concerns. Step 6: Record safety observations and communicate necessary actions.	70
5	CON/N7001	Plan, arrange and manage resources for execution of relevant work	Structured Practical Task	Demonstrate arranging materials for building electrical wiring.	Step 1: Review the electrical drawings and material requirements. Step 2: Prepare a list of required cables, conduits, fittings, and components. Step 3: Check material availability, specifications, and phase marking. Step 4: Arrange materials according to the planned work sequence. Step 5: Issue materials to workers according to their assigned tasks. Step 6: Monitor remaining stock and update material requirements.	70
6	CON/N8001	Work effectively in a team to deliver desired results at the workplace	Structured Practical Task	Demonstrate assigning electrical tasks to team members.	Step 1: Review the electrical work plan and daily targets. Step 2: Identify activities requiring team members and assign tasks. Step 3: Assign tasks according to workers' skills and responsibilities. Step 4: Explain work requirements, sequence, safety measures, and deadlines. Step 5: Monitor progress and provide guidance during execution. Step 6: Review completed work and communicate results to the team.	70
7	CON/N8003	Supervise, monitor and evaluate performance of subordinates at workplace	Structured Practical Task	Demonstrate evaluating subordinate performance during electrical maintenance.	Step 1: Review the assigned maintenance task and expected outcomes. Step 2: Observe the worker's preparation and safety practices. Step 3: Monitor inspection, maintenance, and component replacement. Step 4: Check work quality, accuracy, and adherence to procedures. Step 5: Compare completed work with specified maintenance requirements. Step 6: Provide feedback and document the performance evaluation.	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 for documentation. Step 2: Enter required workplace information accurately. Step 3: Record electrical tasks, materials, test results, or safety incidents. 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