
	<b>ASSESSMENT SUMMARY SHEET for Qualification Pack - Assistant Electrician Level- 3 version 2</b>				
NOS No.	NOS name	Allotted (Marks)		Allotted (Time) in minutes	
		Skills	Knowledge	theory	practical
CON/N0602	Handle hand and power tools relevant to construction electrical works	70	30	60 minutes	30
CON/N0603	Install temporary lighting arrangement at construction sites	70	30		60
CON/N0604	Assist in LV (low voltage) electrical wiring at permanent structures	70	30		60
CON/N0605	Assemble, install and maintain temporary LV electrical panels (distribution boards) at construction site	70	30		60
CON/N8001	Work effectively in a team to deliver desired results at the workplace	70	30		10
CON/N8002	Plan and organize work to meet expected outcomes	70	30		10
CON/N9001	Work according to personal health, safety and environment protocols at construction site	70	30		10
<b>Total : 500</b>		<b>490</b>	<b>210</b>	<b>60</b>	<b>240</b>
<b>Percentage weightage</b>		<b>70%</b>	<b>30%</b>	<b>Total- 300 minutes</b>	
<b>Minimum pass % to qualify</b>		<b>50%</b>		<b>(5 hour)</b>	
<b>Candidate Score atleast 50%</b>					



**ASSESSMENT Criteria SUMMARY SHEET for NOS No. - CON/N0602**





Element	Skills (Total Marks = 70)	Allotted Marks
QP : QP : Assistant electrician QP : CON/Q0602	1. Demonstrate hand/ power tools to cut/ and bend wire and conduit as per electrical installation/trace out short circuits/faults and leakages in electrical wiring/ thread conduit ends/ connect couplings/ and fabricate and secure conduit support brackets	50
	2. Demonstrate electrical measuring devices like ammmeter/ voltmeter/megggers/ multi-meter/ tong tester/ earth tester	20
CON/N0602: Select and use hand/ power tools and electrical devices relevent to construction electrical works.	Total Marks	<b>70</b>
	<b>Knowledge (Total Marks =30)</b>	
	1. Knowledge of alternate/direct current/ voltage/ resistance/temperature/ cross section of conductors	6
	2. Knowledge of electrical measuring devices like ammmeter/ voltmeter/megggers/ multi-meter/ tong tester/ earth tester	6
	3. Knowledge of f various electrical hand and power tools such as pliers/ crimping tools/ electrical drill machines/ cutting machines/ Chasing machine/	6
	4. Knowledge of type of electrical devices like starters/relays /circuit breakers/Tungsten bulb/ CFL/FSL bulb/ Halogen lamp/ wall socket/ Simple switchboard	6
	5. Knowledge of Ampere's law/ Ohm's law/ electromagnetic field.	6
	Total Marks	<b>30</b>



ASSESSMENT Criteria SUMMARY SHEET for NOS No. - CON/N0603



Element	Skills (Total Marks = 70)	Allotted Marks
QP : QP : Assistant electrician QP : CON/Q0602	<b>1. Carryout laying of LV cables through underground by suitable trenches/overhead through poles</b>	
	a) Select cable/ conduits/ lights/ sockets and related fitting.	10
CON/N0603 : Install temporary lighting arrangement at construction sites	b). Laying of cable for given length.	10
	c). Perform joining of cable in 'straight through joint' methods using PVC tapes	15
	d). fix lights and its accessories/bracket/bulkheads with screws and bolts	15
	e) carry out termination of LV cables selecting the right method as per standard practice	10
	f). Carry out relevant tests to trace out power interruptions/ continuity at lighting arrangements	10
	<b>Total Marks</b>	<b>70</b>
	<b>Knowledge (Total Marks =30)</b>	
	1. Knowledge of types of cables based on insulation/phase and their use as per power rating	6
	2. Knowledge of types of conduits and fixtures such as switches/sockets/ their selection method	6
	3. Knowledge of type of tests to be undertaken in lighting units and its accessories such as voltage test/ leakage test/ power interruption/continuity test etc	6
4. Knowledge of types of lights units/their wattage /respective use in construction sites.	6	
5. Knowledge of electrical units of measurements and their signs( Watt/ Ampere/ Ohm/ volt)	6	
<b>Total Marks</b>	<b>30</b>	

	<b>ASSESSMENT Criteria SUMMARY SHEET for NOS No. - CON/N0604</b>			
<b>Element</b>	<b>Skills (Total Marks = 70)</b>	<b>Allo tte d Ma rks</b>		
<b>QP : Assistant electrician</b> <b>QP : CON/Q0602</b>	<b>Perform electrical wiring lay conduit through RCC structures (slabs/ beams/ walls/ chased wall (brick wall) surface as per instruction and Perform electrical wiring through them</b>	<b>70</b>		
	1. Check and select required materials and fittings as per the below drawing	<b>10</b>		
	2.Select wiring components such as conduits/ switch/ socket/ light with accessories/ cable and other relevant fittings for light point connection as per SLD given	<b>10</b>		
<b>CON/N0604: Install LV electrical wiring at pemanent structure</b>	3.Measure and cut the length of wire and conduit according to SLD	<b>10</b>		
	4.Demonstrate use of measuring instruments and cutting tools such as measuring tapes/ markers/ cutters to cut and bend conduits	<b>5</b>		
	5.Perform canceled electrical wiring by fixing of conduits as per drawing and using hand/power tools	<b>25</b>		
	6.Perform electrical tests like voltage drop/ continuity of current flow and resistance in insulations	<b>10</b>		
	<b>Total Marks</b>		<b>70</b>	
	<b>Knowledge (Total Marks =30)</b>			
	1. Knowledge about type of electrical hazards associated/types of safety equipment associated with domestic wiring work/consequence of faulty/ improper wiring works	<b>6</b>		
	2. Knowledge about type of electrical materials and fixtures such as conduits/ raceways/ brackets/ etc.used for domestic wiring works and their required acceptance criteria for using	<b>6</b>		
	3.Knowledge about standard practices of cable/ wire laying through conduits /tests to be done to ensure there is no breakage/ leakage from the wire	<b>6</b>		
	4. Knowledge about n electrical earthing procedure in domestic wiring/tools and equipment used for electrical earthing works	<b>6</b>		
5. Knowledge about Interpreting single phase LV wiring diagram	<b>6</b>			
<b>Total Marks</b>		<b>30</b>		



### ASSESSMENT Criteria SUMMARY SHEET for NOS No. - CON/N0605



Element	Skills (Total Marks = 70)	Allotted Marks
	<b>Perform Assembly and Installation of distribution board</b>	<b>70</b>
QP : Assistant electrician QP : CON/Q0602	1. Check and select required materials and fittings as per the below drawing	8
	2. Measure and mark all fittings, fixtures and components in distribution board as per the drawing	8
	3. Carryout required opening (Cut/hole) in distribution board using appropriate tools.	10
CON/N0605 : Assemble, install and maintain LV electrical panels ( distribuits boards)	4. Carryout wiring using required tools and materials as per the drawing	15
	5. Terminate LV cables using right method.	10
	6. Carryout earthing as per standard method.	8
	7. Carry out relevant tests to trace out power interruptions/ continuity at lighting arrangements	6
	8. Place and safe guard distribution board as per the guidelines	5
	<b>Total Marks</b>	<b>70</b>
	<b>Knowledge (Total Marks =30)</b>	
	1. Knowledge of type of faults associated with temporary electrical panels/ DBs and its accessories	6
	2. Knowledge of type of tests to be undertaken in temporary panels/ DBs and its accessories such as voltage test/leakage test/ power interruption/ continuity test etc	6
	3. Knowledge of standard storing and stacking procedures of electrical units/materials/fixtures/tools and devices	6
4. Knowledge of e methods of trace out short circuits/power interruptions/ continuity using appropriate electrical devices	6	
5. Knowledge of properties of conductors/ insulators/ semi- conductors	6	
<b>Total Marks</b>	<b>30</b>	

**ASSESSMENT Criteria SUMMARY SHEET for NOS No. - CON/N8002**

<b>QP &amp; NOS Detail</b>	<b>Skills (Total Marks = 70)</b>	<b>Allotted Marks</b>
<b>CON/Q0202: Assistant Bar Bender and Steel Fixer</b>	1. How the candidate communicate work related information to team member or to assessor while performing the task of 4 core NOS	10
	2. How the candidate escalate deviations to the seniors/assessor w.r.to 4 core NOS	12
	3. How the candidate address and report problems for core nos	12
<b>CON/N8001: Work effectively in a team to deliver desired results at the workplace</b>	4. How a person receive and follow the instructions given by seniors/assessor	10
	5. How a person seek clarifications and resolve the issues raised during performing the task	14
	6. How a person work as team like, proper cooperation, timely handing over tools and materials, helping and communicating team members	12
	<b>Total Marks</b>	<b>70</b>
	<b>Knowledge (Total Mark - 30)</b>	
	1. Knowledge about the advantage of working in a team	4
	2. Knowledge about the work schedule/checklists/work-permits(2questions)	8
	3. Knowledge about the importance of communication within team	5
	4. Knowledge about the escalation and report problems	4
	5. Knowledge about the importance of inter team discussion	4
	6. Knowledge about the implementation of communication skill	5
<b>Total Marks</b>	<b>30</b>	



ASSESSMENT Criteria SUMMARY SHEET for NOS No. - CON/N9001



Element	Skills ( Total Marks = 70 )	Allotted Marks
CON/Q0202: Assistant Bar Bender and Steel Fixer	1. Demonstrate use of all Personal Protective Equipment (PPE) like helmet/ safety shoe/ safety belt/ safe jackets/Safety belt and other safety equipment relevant to bar bending work	25
	2. Demonstrate the operation of fire extinguisher	25
CON/N9001: Work according to personal health/ safety and environment protocol at construction site	3. Demonstrate housekeeping after completion of core No's task	10
	4. observation of safe working of power tools during cor Tasks	10
	<b>Total Marks</b>	<b>70</b>
	<b>Knowledge (Total Mark - 30)</b>	
	1. Knowledge about the helmet colour codes/types of earplug/types of gloves	5
	2. Knowledge about types of hazards at the construction sites particularly related to the bar	4
	3. Knowledge of the classes of fire / types of fire extinguishers/ causes of fire at site (2 questions)	10
	4. Knowledge about different types of wastes produced at a construction site /their disposal method	5
	5. Knowledge about ergonomic principles adopted during lifting/carrying /climbing safe housekeeping	6
<b>Total Marks</b>	<b>30</b>	