



Construction Skill Development Council of India

CON/N0606: Identify and handle different tools, measuring devices and materials relevant to LV electrical works

Infrastructure: Hand Tools- Hammer, Screw Driver, Wire stripper, Pliers, Hack saw, wire cutters, chisels, spanners, wrenches

Power Tools- Drill machine, Cutting machine.

Measuring Devices- Multimeter, Voltage tester

Material- Different Types of Wires, Cables, sockets, switches, Lights, Conduit, Raceways

PPEs- Safety Helmet, Safety Belt, Hand Gloves, Different type of mask (Nose and face), Safety Jackets. Goggles, Safety shoes

Each candidate will perform this task individually.

Task: Select and demonstrate use of hand tools, power tools, and electrical materials/devices

Sl no	Practical skill assessment question	Marks	Duration (Min)
1	Identify and Demonstrate following hand and power tools by name and size 1. Drilling Machine 2. Hand cutting machine 3. Hack saw 4. Wire cutters 5. Wire strippers 6. Pliers 7. Spanners	30	60
2	Identify & Demonstrate measuring and marking tools 1. Multimeter 2. Voltage tester	10	
3	Identify construction equipment which uses electrical power supply to become operational (atleast two)	10	
4	Identify the following electrical materials and fixtures as per name and size (Any five)? Cable, Wires, sockets, switches, Lights, Conduits, Race ways	10	
5	Perform Shifting and stacking of electrical goods used in LV electrical works such as wire/cable/conduits/light/switch/sockets/starter/cable trays/DBs/circuit breakers etc. (min three)	10	
6	Perform Erection of hard barrication within specified area using appropriate material	10	
Total Marks		80	

Note: Question to be distributed to the candidate.



Construction Skill Development Council of India

CON/N0607: Carry out wall chasing and external threading on MS conduit

Infrastructure: Hand Tools- Hammer, Screw Driver, Wire stripper, Pliers, Hack saw, wire cutters, chisels, spanners, wrenches

Power Tools- Drill machine, hand cutting machine, Power source, Source of water, cutting blades for bricks & concrete

Measuring Devices- Leveller, cotton thread, dye

Material- Sockets, switches, Lights, Conduit, Raceways, screws, nuts & bolts

PPEs- Safety Helmet, Safety Belt, Hand Gloves, Different type of mask (Nose and face), Safety Jackets. Googles, Safety shoes

Group of two candidates will perform this task.

Task: Chase wall as per marking and assist in external threading on MS conduit

Sl no	Practical skill assessment question	Marks	Duration (Min)
1	<p style="text-align: center;">Chasing Plan</p> <p style="text-align: center;">Section A-A</p> <p>1" deep & 1" wide chase for MS Conduiting</p>	5	90
	Perform shifting and demonstration of hand/power tools required for wall chasing?		
2	Select and check measuring tools and safety gears for wall chasing	12	
3	Perform marking wall for chasing work in two different directions	10	
4	Carrying out chasing work (not less than 1m) while maintaining, <ul style="list-style-type: none"> • Uniform width • Uniform depth • As per marking 	20	

5	Cut, bend and join flexible conduit pipes at a junction	3
6	Fix conduits in chased wall using appropriate fixtures (min 3m)	10
7	Perform Measuring & marking on MS conduits (atleast two number)	10
8	Perform cutting and threading of MS conduit (atleast two number)	10
Total Marks		80

Note: Question to be distributed to the candidate.



Construction Skill Development Council of India

CON/N0104: Carry out manual earthwork at construction sites

Infrastructure: Hand Tools- Hammer, Axe, Shovel, Pan, Spade, chisels, spanners

Power Tools- Power source, Power hammer, Source of water, Digging machine for mass excavation

Measuring Devices- Measuring tape, thread

Material- Lime powder

PPEs- Safety Helmet, Safety Belt, Hand Gloves, Different type of mask (Nose and face), Safety Jackets. Googles, Safety shoes

Group of two candidates will perform this task.

Task: Digging and Excavating

Sl no	Practical skill assessment question	Marks	Duration (Min)
1	Identify and demonstrate the use of digging and excavating tools?	10	90
2	<div style="text-align: center;"> <p style="text-align: center;">(Layout Plan)</p> <p style="text-align: center;">(Cross Section)</p> </div> <p>Mark the layout on ground for cutting of the earth</p>	10	
3	Perform cutting and digging the mark area up to desire depth manually	20	

4	Perform Disposal of excavated earth (manually)	10
5	Perform dressing of excavated pit/ trench surface	10
6	Erect and label / signage the safety parameter ribbon around the pit	5
7	Backfilling and compaction of earth	15
Total Marks		80

Note: Question to be distributed to the candidate.



Construction Skill Development Council of India

CON/N0101: Erect and dismantle temporary scaffold of 3.6 m height

Infrastructure: Hand Tools- Hammer, Screw Driver, Wire stripper, Pliers, Hack saw, wire cutters, chisels, spanners, wrenches

Power Tools- Drill machine, Cutting machine, Power source, Source of water

Measuring Devices- Multimeter, Voltage tester

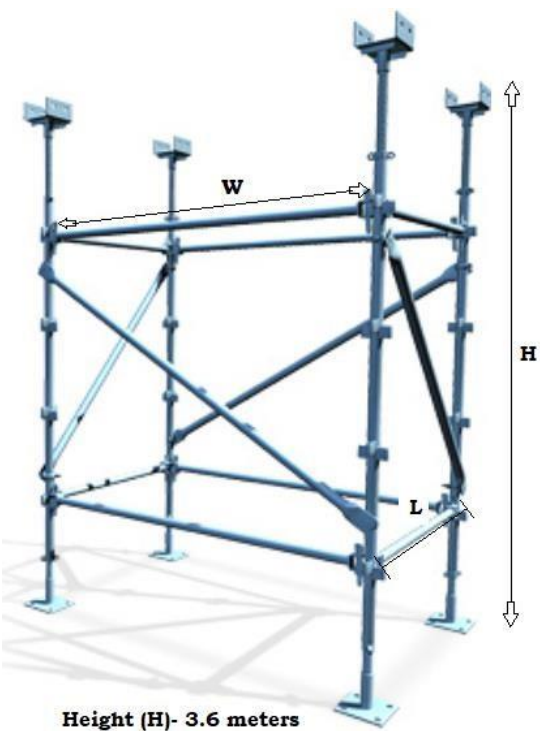
Scaffolding materials

Material- Different Types of Wires, Cables, sockets, switches, Lights, Conduit, Raceways, screws, nuts & bolts, lime powder

PPEs- Safety Helmet, Safety Belt, Hand Gloves, Different type of mask (Nose and face), Safety Jackets, Goggles, Safety shoes

Group of two candidates will perform this task.

Task: Erecting and dismantling temporary scaffold

Sl no	Practical skill assessment question	Marks	Duration (Min)
1	 <p>Height (H)- 3.6 meters Width (W)- 1 meter Length (L)- 1 meter</p> <p>Identify scaffolding materials by names/ size and describe their functions</p>	15	90
2	Identify tools by names/ size used for erection of scaffold and describe their functions	10	
3	Perform Shifting and stacking of scaffolding	20	
4	Check the selection and use of PPE's for height work	10	
5	Erect and dismantle 3.6 Mtr. high temporary scaffold	25	
Total Marks		80	

Note: Question to be distributed to the candidate.



Construction Skill Development Council of India

CON/N8001: Work effectively in a team to deliver desired results at the workplace

Infrastructure- Observation on basis of core task as mentioned below

Task based on carrying out wall chasing and electrical threading on MS conduit, carrying out manual earth work at construction site, erecting and dismantling temporary scaffold

Sl no	Practical skill assessment question	Marks	Remarks
1	Observe the cooperation of team member in terms of willingness to share the task responsibility during any one of the above core task.	10	
2	Observe how the candidate escalate deviations to the seniors/assessor	15	
3	Observe how the candidate reports safety violation	15	
4	Observe how a person receive and follow the instructions given by seniors/assessor	15	
5	Observe how a person seek clarifications and resolve the issues raised during performing the task	10	
6	Observe how a person work as team like, proper cooperation, timely handing over tools and materials, helping and advising team members	15	
Total Marks		80	

Note: Question note to be distributed to the candidate.



Construction Skill Development Council of India

CON/N9001 Work according to personal health, safety and environment protocol at construction site

Infrastructure- All PPEs such as (helmets, safety harness, insulated glove, reflective jackets, safety shoes, gum boot, goggle, Nose and face mask, earplug,) Fire Extinguisher, safety message boards, fire extinguishers and sand buckets

Mock up for hazardous condition to be created for assessment purpose

Sl no	Practical skill assessment question	Marks	Duration (Min)
1	Observe how candidate identify hazards, risks at site and report to seniors (mock situations can be created- eg:water on floor while performing live electrical work, unsafe electrical joints, open electric circuit etc)	10	30
2	Identify & demonstrate wearing the following PPE 1. Safety harness 4. Ear Plug 2. Helmet 5. Insulated gloves 3. Reflective jacket 6. Nose mask	40	
3	Identify the type of fire extinguisher given & operate it?	10	
4	Observe attitude towards safety while handling of tools, materials and equipment while performing core practical task -	6	
5	Observe the adherence to safe working practices while working at height, using tools and equipment, material shifting, working with hazardous materials etc.	8	
6	Observe attitude of candidates towards maintaining and up keeping the workplace clean	6	
Total Marks		80	

Note: Question not to be distributed to the candidate.

