



# QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR CONSTRUCTION INDUSTRY



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### What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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## Introduction

### Qualifications Pack- Helper Electrician

**SECTOR:** CONSTRUCTION

- SUB-SECTOR:**
- 1. Real Estate (Residential, Factories, Industry, Institutional and Special Economic Zone)
  - 2. Infrastructure (Roads, Railways, Runways & Urban Utilities)
  - 3. Power Generation (Hydro, Thermal & Nuclear)

**OCCUPATION:** Electrician

**JOB ROLE:** HELPER ELECTRICIAN

**REFERENCE ID:** CON/Q0601

**ALIGNED TO :** NCO-2004/9313.90

**Electrician Trade** in Construction Industry is the basic Trade which is common to all type of constructions and has variance with respect to Specialization and specific requirements of the project & sub-sector.

**Brief Job Description of Helper Electrician Level-1:** Individual in this position need to work as helper and perform task under continuous instruction and close supervision of Assistant Electrician level-2 and above. He is expected to shift and store materials, handle tools & tackles, preparatory works of materials & surfaces, assistance in wall chasing, conduit fixing, cable laying and other allied electrical works and relevant housekeeping. He should have the basic knowledge in the environment, health & safety aspects relevant to the trade.

**Personal Attributes:** This job require individual to work at site as a **Helper Electrician** where he needs to be physically fit and mentally alert to withstand working in a difficult and tough construction environment while responding to the needs and requirements of the tasks. He should be extra safety conscious.



### Qualifications Pack For Helper Electrician Level-1

<b>Job Details</b>	<b>Qualifications Pack</b>	<b>CON/Q0601</b>		
	<b>Job Role</b>	<b>Helper Electrician Level-1</b>		
	<b>Credits(NSQF)</b>	TBD	<b>Version number</b>	1.0
	<b>Sector</b>	Construction	<b>Drafted on</b>	12/03/2014
	<b>Sub-sector</b>	1. Real Estate (Residential, Factories, Industry, Institutional and Special Economic Zone) 2. Infrastructure (Roads, Railways, Runways & Urban Utilities) 3. Power Generation (Hydro, Thermal & Nuclear)	<b>Last reviewed on</b>	
	<b>Occupation</b>	Electrician	<b>Next review date</b>	12/03/2015
	<b>NSQC Clearance on</b>	19/05/2015		

<b>Job Role</b>		<b>Helper Electrician Level-1</b>
<b>Role Description</b>	To work as Helper in Electrician Trade while attending and responding to the needs and requirement of the tasks under his trade senior level-II and above.	
<b>NSQF level</b>	1	
<b>Minimum Educational Qualifications*</b>	Preferably equivalent to 10 <sup>th</sup> (Reasonable knowledge of mathematics, science & English terminology relevant to trade)	
<b>Maximum Educational Qualifications*</b>	10 <sup>th</sup> Standard	
<b>Training</b> (Suggested but not mandatory)	Trained to qualify test & assessment by authorized agency for behavior, knowledge & skill as per NOS for Helper Electrician Level-1. Training period may vary from 6 to 8 weeks.	
<b>Minimum Job Entry Age</b>	18 Years	
<b>Experience</b>	NIL	
<b>Applicable National Occupational Standards (NOS)</b>	<u><b>Compulsory</b></u> 1. CON/N0048 : Health, Safety & Environment applications in Electrician occupation 2. CON/N0049 : Identification & use of Basic tools and equipments 3. CON/N0050 : Material Handling & Storing 4. CON/N0031 : Cutting, Filling, Levelling and Compaction of Earth 5. CON/N0006 : Erect and dismantle 3.6 meter temporary Scaffold 6. CON/N0051 : Wall chasing & conduit fixing for concealed wiring 7. CON/N0052 : External threading on MS conduit	
<b>Performance Criteria</b>	As per Occupation Standard (OS) for Level-1	



**Qualifications Pack For Helper Electrician Level-1**  
**Glossary of Key Terms**

**Definitions**

Keywords /Terms	Description
Sector	Sector is conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-Sector	Sub-Sector is derived from a further breakdown based on the characteristics and interests of its components
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet the standard consistently. Occupational Standards are applicable both in the Indian contexts.
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
Qualifications Pack (QP)	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualification Pack is assigned a unique qualification pack code
Qualification Pack Code	Qualification Pack Code is a unique reference code that identifies a qualifications pack.
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context.
Scope	Scope is the set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on the quality of performance required.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard
Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills / Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.

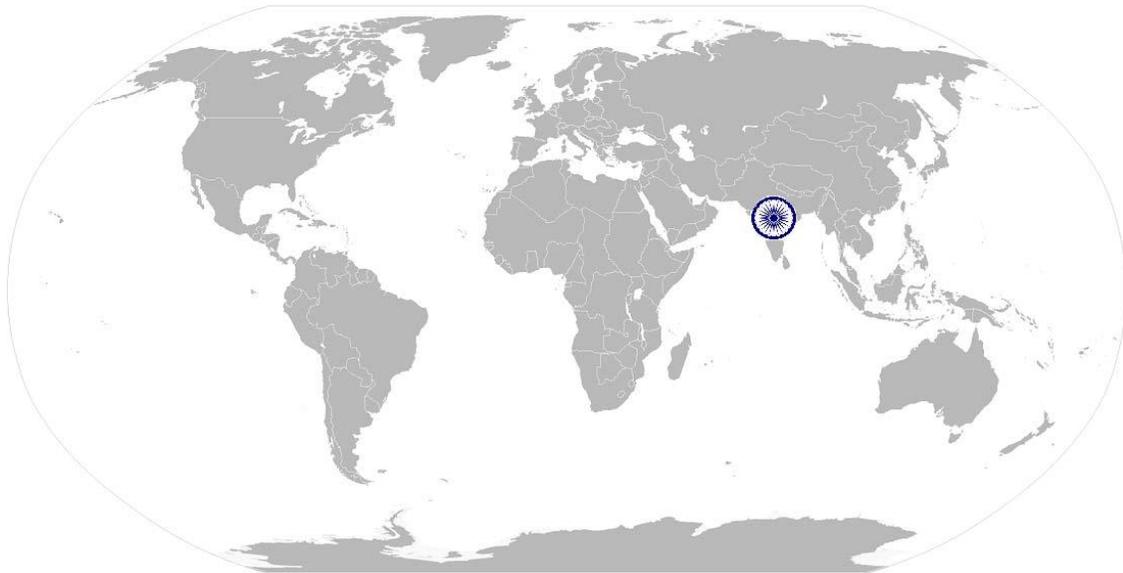
**Acronyms**

Keywords /Terms	Description
CON	Construction
NVEQF	National Vocational Education Qualifications Framework
NVQF	National Vocational Qualifications Framework
NSQF	National Skill Qualification Framework
TBD	To Be Decided
QP	Qualification Pack
OS	Occupational Standards
CSDCI	Construction Skill Development Council of India



**CON/ N 0048: Health, Safety & Environment applications in Electrician occupation**

# National Occupational Standard



## Overview

This NOS covers the skill and knowledge of an individual to be proficient in Health, Safety & Environment aspect relevant to electrician occupation in construction sector.



**CON/ N 0048: Health, Safety & Environment applications in Electrician occupation**

National Occupational Standard	<b>Unit Code</b>	CON / N 0048
	<b>Unit Title (Task)</b>	Health, Safety & Environment applications in Electrician occupation
	<b>Description</b>	This unit describes the skill and knowledge required to meet various health, safety and environment parameters relevant to electrician trade in construction sector.
	<b>Scope</b>	Health, Safety & Environment applications in Electrician occupation
	<b>Performance Criteria(PC) w.r.t. the Scope</b>	
	<b>Element</b>	<b>Performance Criteria</b>
	<b>Health, Safety and Environment</b>	To be competent, the user/individual on the job must be able to: PC1. Use Personal Protective Equipment such as Head Protection, Fall Protection, Foot Protection, Face & eye Protection, Ear Protection, Hand & Body Protection and Respiratory Protection. PC2. Follow Do's and Don'ts during working at heights PC3. Carryout various Safety measures, mock drills relevant to task during work and evacuation at emergency. PC4. First Aid Practice such as use of basic dressing materials and bandages, resuscitation practices PC5. Safe waste disposal and pollution control of organic and inorganic waste material PC6. Safe working on ladder at heights and use of sound protection methods. PC7. Use of ELCB, Discharge chain and discharge rod for electrical safety. PC8. Effective use of fire safety equipments relevant to task. PC1 to PC8 assessments based on viva-voice / interview / quiz test /demonstration technique.
	<b>Knowledge and Understanding (K)</b>	
	<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	The user/individual on the job should know and understand: KA1. Process and aim of safety, health and environment KA2. Organizational procedures and guidelines related to safety, health and environment KA3. Select and check PPEs and follow safety procedures at the site KA4. Knowledge of indent and return procedures KA5. Health and safety hazards relevant to task KA6. Reporting Procedures against safety violations. KA7. Use fire extinguishers as per specific
	<b>B. Technical Knowledge</b>	The user/individual on the job should know and understand: KB1. Evacuation Procedure of workers during emergency KB2. Use appropriate PPEs according to working condition. KB3. Process of using PPEs and safety sign boards. KB4. Health, safety and accident reporting procedures KB5. First Aid with identification and use of basic dressing materials KB6. Use of earthing procedures relevant to task. KB7. Procedure for installing ladder.
<b>Skills (S)</b>		
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b> The user/ individual on the job should know and understand how to: SA1. Able to write / fill the basic EHS format.	



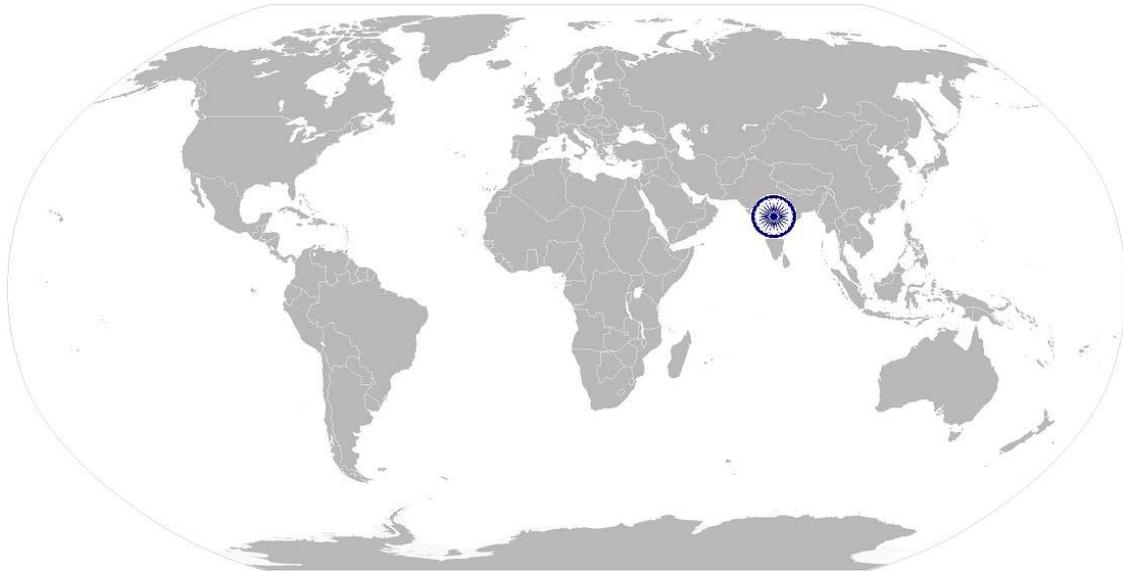
### CON/ N 0048: Health, Safety & Environment

	<b>Reading Skills</b> The user / individual on the job should know and understand how to: SA2. Read instructions, guidelines, procedures, rules
	<b>Oral Communication (Listening and Speaking skills)</b> The user / individual should do the following: SA3. Listen carefully SA4. Effective oral communication
<b>B. Professional Skills</b>	<b>Decision Making</b> The user / individual on the job should know and understand how to: SB1. Accept appropriate PPEs against different working conditions
	<b>Plan and Organize</b> The user / individual on the job should know and understand how to: SB2. Selection and effective use of PPEs for different working conditions
	<b>Customer Centricity</b> The user / individual on the job should know and understand how to: SB3. Answerable to trade senior
	<b>Problem Solving</b> The user / individual on the job should know and understand how to: SB4. Under the guidance of trade senior
	<b>Analytical Thinking</b> The user / individual on the job should know and understand how to: SB5. Application of emergency drills
	<b>Critical Thinking</b> The user / individual on the job should know and understand how to: SB6. Resuscitate the casualty
	<b>Attention to Detail</b> The user / individual on the job should know and understand how to: SB7. Check work location for possible hazards.
	<b>Team Working</b> The user / individual on the job should know and understand how to: SB8. Work in coordination with trade senior and co workers SB9. Take care of workmates in case of requirement and at emergency



**CON/ N 0049: Identification & use of basic tools, equipment and materials**

# National Occupational Standard



## Overview

This NOS covers the skill and knowledge for an individual to be proficient in identifying and using basic tools, equipments and materials used in the electrician trade.

## CON/ N 0049: Identification & use of basic tools, equipment and materials

National Occupational Standard	<b>Unit Code</b>	CON / N 0049
	<b>Unit Title (Task)</b>	Identification & use of basic tools, equipment and materials
	<b>Description</b>	This unit describes the skill and knowledge required to effectively identify and use electrical tools, equipment and materials relevant to Electrician trade in construction industry.
	<b>Scope</b>	Identification & use of basic tools, equipment and materials
	<b>Performance Criteria(PC) w.r.t. the Scope</b>	
	<b>Element</b>	<b>Performance Criteria</b>
	<b>Identification &amp; use of basic tools, equipment and materials</b>	To be competent, the user/individual on the job must be able to: PC1. Identify, select and use working tools such as various types of pliers, Screw drivers, hammers, files, chisels etc. PC2. Identify, select and use of marking tools and testing tools as per instructions. PC3. Identify and use electrical equipment relevant to task under supervision. PC1 TO PC3 assessments based on viva-voice / interview / quiz test / demonstration technique.
	<b>Knowledge and Understanding (K)</b>	
	<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	The user/individual on the job should know and understand: KA1. Select, identify and use of right tools for right job. KA2. Procedure followed in store for receiving, handing over of tools, materials and consumables. KA3. Use of indent for receiving materials in store. KA4. Safety in handling tools and materials at site. KA5. Precautions and measures in handling, storing and transporting materials to working spot.
	<b>B. Technical Knowledge</b>	The user/individual on the job should know and understand: KB1. Storing and handling technique of tools KB2. Upkeep, repair and maintenance of tools KB3. Classification and storage of materials as per the uses and compositions. KB4. Visual inspection of materials for details.
<b>Skills (S)</b>		
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>	
	The user/ individual on the job should know and understand how to: SA1. List of material, tools and tasks.	
	<b>Reading Skills</b>	
	The user / individual on the job should know and understand how to: SA2. Read instructions, guidelines, sign boards, safety rules & safety tags.	
<b>B. Professional Skills</b>	<b>Oral Communication (Listening and Speaking skills)</b>	
	The user / individual should do the following: SA3. Listen and follow instructions carefully SA4. Effective oral communications	
	<b>Decision Making</b>	
	The user / individual on the job should know and understand how to: SB1. Right selection of tools relevant to task.	



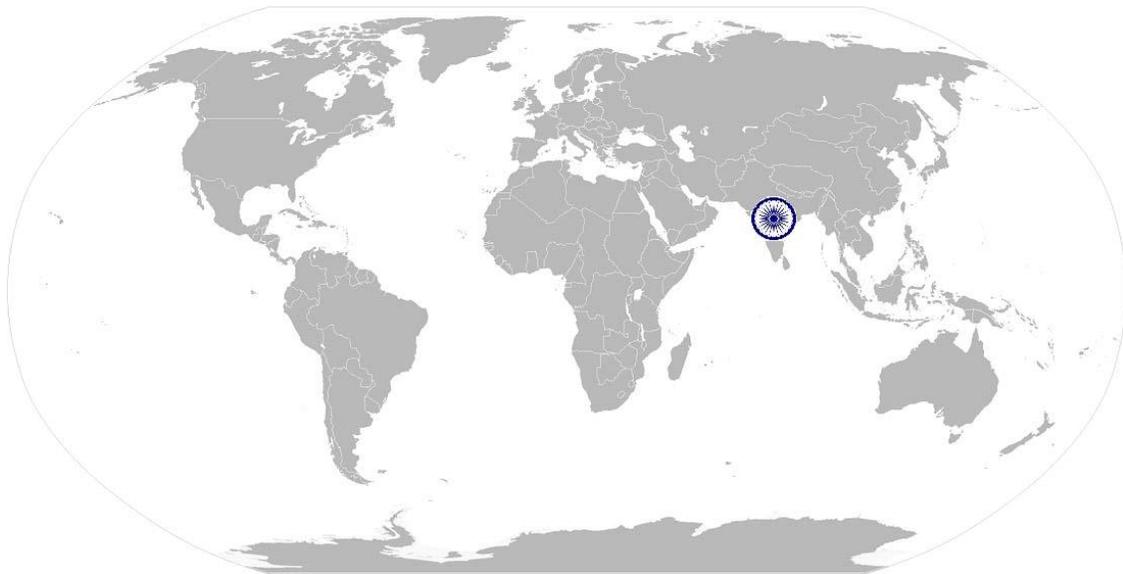
**CON/ N 0049: Identification & use of basic tools, equipment and materials**

	<b>Plan and Organize</b>
	The user / individual on the job should know and understand how to: SB2. Preparation of work place before task. SB3. Organize tools and materials as per requirements
	<b>Customer Centricity</b>
	The user / individual on the job should know and understand how to: SB4. Answerable to Assistant Electrician level-2 & above
	<b>Problem Solving</b>
	The user / individual on the job should know and understand how to: SB5. Under guidance of Assistant Electrician level-2 and above.
	<b>Analytical Thinking</b>
	The user / individual on the job should know and understand how to: SB6. Lay the tools in sequence and order of use. SB7. Arrange the quantity of materials as per instructions.
	<b>Critical Thinking</b>
	The user / individual on the job should know and understand how to: SB8. Plan & arrange alternate tools. SB9. Minimum wastage and optimum use of material.
	<b>Attention to Detail</b>
	The user / individual on the job should know and understand how to: SB10. Correct handling and maintenance of all electrical tools.
<b>Team Working</b>	
The user / individual on the job should know and understand how to: SB11. Work in coordination with Assistant Electrician Level-2 & above. SB12. Take care of workmates as per requirement & in case of emergency	



CON/ N 0050: Material Handling & Storing

# National Occupational Standard



## Overview

This NOS covers the skill and knowledge required by an individual to be proficient in Material Handling & Storing practices relevant to electrician trade in construction industry.



### CON/ N 0050: Material Handling & Storing

National Occupational Standard	<b>Unit Code</b>	CON / N 0050
	<b>Unit Title (Task)</b>	Material Handling & Storing
	<b>Description</b>	This unit describes the skills and knowledge required for effective Material Handling & Storing practices relevant to electrician trade in construction industry.
	<b>Scope</b>	<b>Material Handling &amp; Storing</b>
	<b>Performance Criteria(PC) w.r.t. the Scope</b>	
	<b>Element</b>	<b>Performance Criteria</b>
	<b>Material Handling &amp; Storing</b>	To be competent, the user/individual on the job must be able to: PC1. Lift & shift materials by involving push and pull in accordance with workplace EHS requirement. PC2. Follow methods and sequence of loading & unloading electrical materials. PC3. Maintain proper Storing and stacking of cable tray, Cable tray supports, Poles, paints, inflammable etc. PC4. Handle and lift different materials such as metallic and nonmetallic conduit, Insulated wires and GI Wires. PC5. Strictly follow safety norms while lifting, loading, unloading and handling materials PC6. Carry loose and fluid materials like chemicals, transformer-oil & fuel. PC1 to PC6 assessment based on their performance and efficiency in material handling & storing shall be assessed through questions & answers and physical performance within the stipulated time.
	<b>Knowledge and Understanding (K)</b>	
	<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	The user/individual on the job should know and understand: KA1. Procedure for collecting the materials from store. KA2. Importance of indent. KA3. Access route for shifting materials. KA4. Follow safety regulation for lifting and carrying. KA5. Store and stack materials at identified locations. KA6. Return the surplus or balance materials to the store. KA7. Involve the housekeeping activities.
	<b>B. Technical Knowledge</b>	The user/individual on the job should know and understand: KB1. Height up to which the materials should be stacked. KB2. Handling materials as per its physical properties KB3. Loading and unloading of materials. KB4. Stacking of materials by its size and shapes. KB5. Handling and stacking of hazard materials. KB6. Housekeeping procedures required in the workplace
<b>Skills (S)</b>		
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>	
	The individual on the job should know and understand how to: SA1. Make list of items & materials	



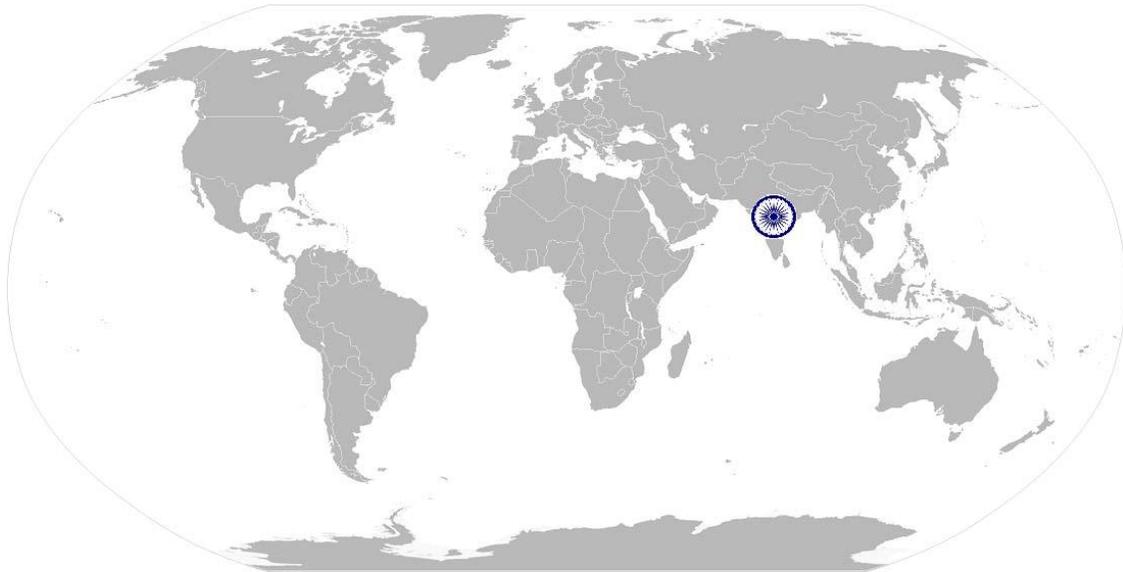
### CON/ N 0050: Material Handling & Storing

	<b>Reading Skills</b>
	The user/individual on the job should know and understand: SA2. Read instructions, guidelines, sign boards, safety rules & safety tags.
	<b>Oral Communication (Listening and Speaking skills)</b>
	The user / individual should do the following: SA3. Listen and follow instruction carefully SA4. Effective oral communication
<b>B. Professional Skills</b>	<b>Decision Making</b>
	The user/individual on the job should know and understand how to: SB5. Shift materials as per its physical properties SB6. Load & unload the materials
	<b>Plan and Organize</b>
	The user/individual on the job should know and understand how to: SB7. Handle equipments, tools and tackles required for material handling and storing SB8. Stack and store the materials with proper methodology and sequence SB9. Layout the items
	<b>Customer Centricity</b>
	The user/individual on the job should know and understand how to: SB10. Answerable to Assistant Electrician Level-2 & above
	<b>Problem Solving</b>
	The user/individual on the job should know and understand how to: SB11. Under guidance of Assistant Electrician Level-2 & above
	<b>Analytical Thinking</b>
	The user/individual on the job should know and understand how to: SB12. Arrange materials effectively in case of shortfall. SB13. Aware of the risks that may exist when manually lifting and handling
	<b>Critical Thinking</b>
	The user/individual on the job should know and understand how to: SB13. Identify and stack hazard materials based on fire and spread nature SB14. Use of shortest possible route for material shifting with safety procedures
	<b>Attention to Detail</b>
	The user/individual on the job should know and understand to: SB15. Safety sign boards for hazard material
	<b>Team Working</b>
The user/individual on the job should know and understand how to: SB16. Housekeeping procedures required in the workplace SB17. Report the observed wrong practice during handling of materials at workplace. SB18. Work in coordination with Assistant Electrician Level-2 & above SB19. Look after the interest other in case of emergency & requirement	



**CON/ N 0031: Cutting, Filling, Leveling & Compaction of Earth**

# National Occupational Standard



## Overview

This NOS covers the skill and knowledge for an individual to be proficient in Cutting, filling, leveling & compaction of earth for various construction works.



**CON/ N 0031: Cutting, Filling, Leveling & Compaction of Earth**

National Occupational Standard	<b>Unit Code</b>	<b>CON / N 0031</b>
	<b>Unit Title (Task)</b>	<b>Cutting, Filling, Leveling &amp; Compaction of Earth .</b>
	<b>Description</b>	This unit is about cutting, filling, leveling & compaction of earth for various construction works.
	<b>Scope</b>	<b>Cutting, Filling, Leveling &amp; Compaction of Earth.</b>
	<b>Performance Criteria(PC) w.r.t. the Scope</b>	
	<b>Element</b>	<b>Performance Criteria</b>
	<b>Cutting, Filling, Leveling &amp; Compaction of Earth</b>	To be competent, the user/individual on the job must be able to: PC1. Identify the required Tools & tackles relevant to the task PC2. Cut & fill the earth as per the markings and layout PC3. Leveling & compaction of earth at desired level & location. PC4. Operate the hand roller. PC5. Help & support respective tradesman to prevent collapse of trench. PC6. Use PPE & take precautionary action against possible hazards.
	<b>Knowledge and Understanding (K)</b>	
	<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. Safe working on scaffolding, basic human kinetics KA2. Safety equipments & safety drills KA3. Working at depth and below ground level KA4. House Keeping practices
	<b>B. Technical Knowledge</b>	The user/individual on the job needs to know and understand: KB1. The name & use of tools & tackles. KB2. Methodology of cutting & filling earth. KB3. Function of excavation equipments like Power Shovel & JCB. KB4. The precaution required to prevention to collapse of trench sides.
<b>Skills (S)</b>		
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>	
	The user/ individual on the job should know and understand how to: SA1. Make the line, sketch and label	
	<b>Reading Skills</b>	
	The user / individual on the job should know and understand how to: SA2. Read instructions, guidelines, sign boards, safety rules and safety tags.	
<b>B. Professional Skills</b>	<b>Oral Communication (Listening and Speaking skills)</b>	
	The user/individual should do the following: SA3. Listen and follow instruction accurately SA4. Effective oral communication	
	<b>Decision Making</b>	
	The user/ individual on the job should know and understand how to: SB1. Identify tools SB2. Identify and use of all safety equipment.	



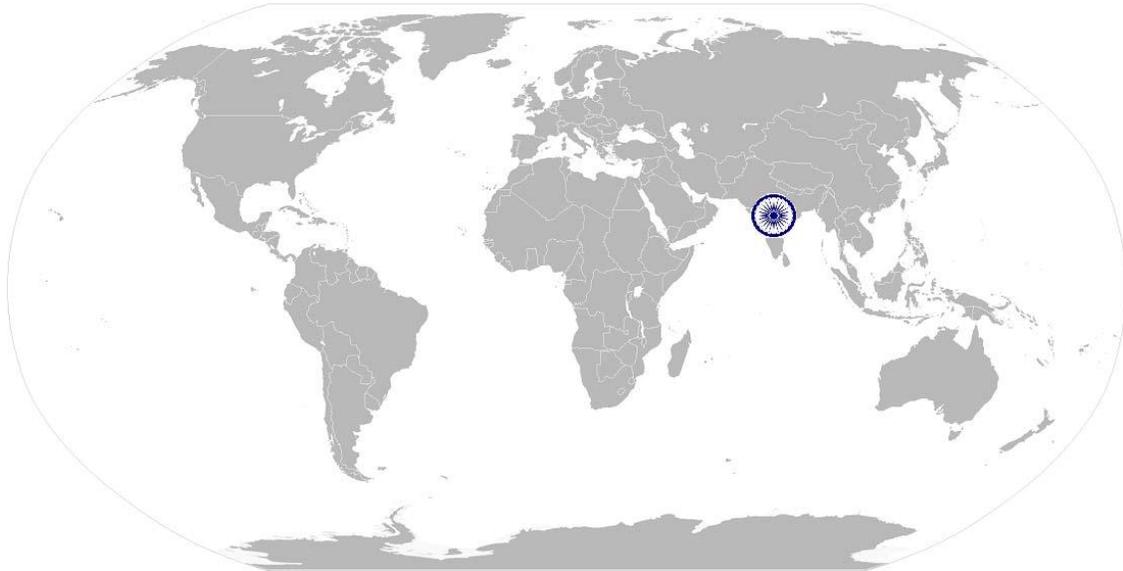
## CON/ N 0031: Cutting, Filling, Leveling & Compaction of Earth

	<b>Plan and Organize</b>
	The user/ individual on the job should know and understand how to: SB2. Select & Shift relevant materials. SB3. Arrange materials at required location as per instructions.
	<b>Customer Centricity</b>
	The user / individual on the job will be: SB4. Answerable to Assistant Electrician level-2
	<b>Problem Solving</b>
	The user / individual on the job should know and understand : SB6. Under the guidance of Assistant Electrician level-2
	<b>Analytical Thinking</b>
	The user / individual on the job should know and understand how to: SB7. Relevant to performance criteria
	<b>Critical Thinking</b>
	The user / individual on the job should know and understand how to: SB8. Prevent collapse of trench
	<b>Attention to Detail</b>
	The user / individual on the job should know and understand how to: SB9. No wastage of materials SB10. Area free of debris
<b>Team Working</b>	
The user/ individual on the job needs to know and understand how to: SB11. Work in coordination with Assistant Electrician level-2 SB12. Take care of workmates in case of emergency & requirement	



CON/ N 0006: Erect and dismantle 3.6 meter temporary

# National Occupational Standard



## Overview

This NOS covers the skills and knowledge required by an individual to proficiently erect and dismantle 3.6 meter temporary scaffold for task relevant to Electrician Occupation in construction industry.

### CON/ N 0006: Erect and dismantle 3.6 meter temporary scaffold

National Occupational Standard	<b>Unit Code</b>	<b>CON / N 0006</b>
	<b>Unit Title (Task)</b>	<b>Erect and dismantle 3.6 meter temporary scaffold</b>
	<b>Description</b>	This unit describes the skill and knowledge required for erection and dismantling of 3.6 meter temporary scaffold.
	<b>Scope</b>	<b>Erect and dismantle 3.6 meter temporary scaffold</b>
	<b>Performance Criteria(PC) w.r.t. the Scope</b>	
	<b>Element</b>	<b>Performance Criteria</b>
	<b>Erect and dismantle 3.6 meter temporary scaffold</b>	To be competent, the user/individual on the job under close supervision should be able to: PC1: Arrange, shift, and stack the required materials, tools and tackles at the identified location. PC2. Use the required safety gadgets and follow trade safety during erection and dismantling operation. PC3. Erect and dismantle 3.6 meter temporary scaffold within stipulated time. PC4. Maintain tidiness at sites. PC1 To PC4 assessment based on their performance and efficiency through questions & answers and physical performance within the stipulated time.
	<b>Knowledge and Understanding (K)</b>	
	<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	The user/individual on the job should know and understand: KA1. Use of Safety Gears and Safety equipments relevant to personal protection KA2. Working procedure for scaffolding at Heights KA3. Safe working methods and movements while performing relevant tasks KA4. First Aid, Housekeeping & other relevant environment aspects.
	<b>B. Technical Knowledge</b>	The user/individual on the job should know and understand: KB1. Safety measures followed while working at height KB2. Tools and equipments used for erecting and dismantling 3.6 meter temporary scaffold KB3. Type of materials used for the task KB4. Process of erecting and dismantling KB5. Process of accessibility & site
<b>Skills (S)</b>		
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>	
	The individual on the job should know and understand how to: SA1. Make list of items & materials required	
	<b>Reading Skills</b>	
	The individual on the job should know and understand how to: SA2. Read instructions, guidelines, sign boards, safety rules & safety tags.	
	<b>Oral Communication (Listening and Speaking skills)</b>	
	The individual on the job should know and understand how to: SA3. Listen and follow instructions. SA4. Communicate effectively	

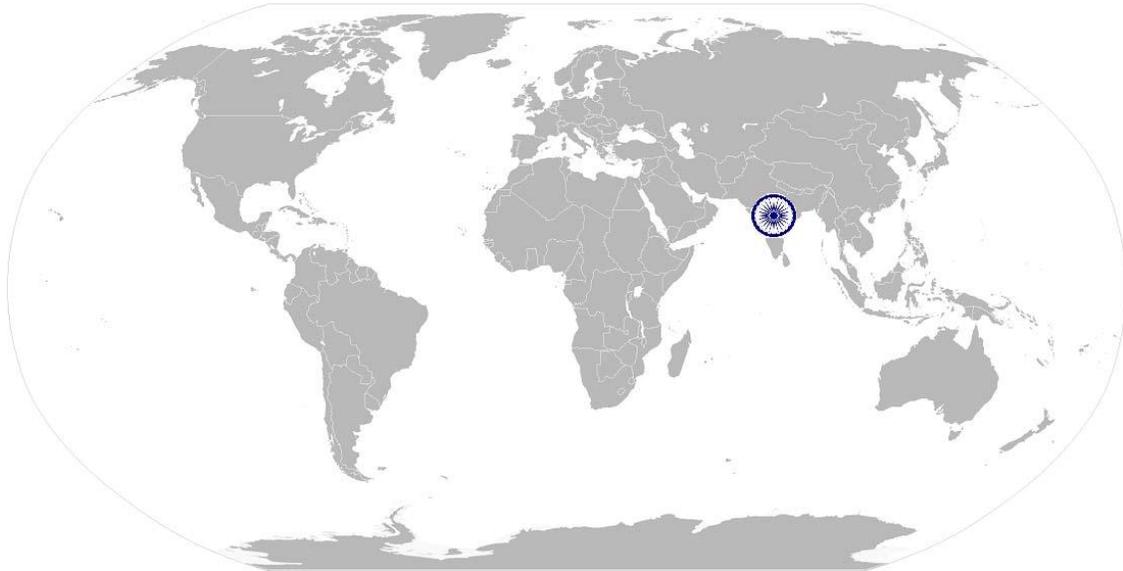
### CON/ N 0006: Erect and dismantle 3.6 meter temporary scaffold

<b>B. Professional Skills</b>	<b>Decision Making</b>
	The user/individual on the job should know and understand how to: SB1. Identify and estimate and use the required materials for the task
	<b>Plan and Organize</b>
	The user/individual on the job should know and understand how to: SB2. Identify and Organize right scaffolding materials SB3. Identify and use relevant tools effectively
	<b>Customer Centricity</b>
	The user/individual on the job should know and understand how to: SB4. Answerable to Assistant Electrician level-2
	<b>Problem Solving</b>
	The user/individual on the job should know and understand how to: SB5. Under guidance of Assistant Electrician level-2
	<b>Analytical Thinking</b>
	The user/individual on the job should know and understand how to: SB6. Relevant to his performance criteria
	<b>Critical Thinking</b>
	The user/individual on the job should know and understand how to: SB7. Check the stability, alignment and verticality of the
<b>Attention to Detail</b>	
The user/individual on the job should know and understand how to: SB8. Relevant to all performance criteria	
<b>Team Working</b>	
The user/individual on the job should know and understand : SB9. Erection and dismantling operation SB10. Involvement during housekeeping activities. SB11. Work in coordination with Assistant Electrician level-2 SB11. Take care of co-workers as per requirement & in case of emergency SB12. Distribute work among workmates	



CON/ N 0051: Wall chasing & conduit fixing for concealed wiring

# National Occupational Standard



## Overview

This NOS covers the skills and knowledge required by an individual to be proficient for wall chasing and conduit fixing for concealed wiring relevant to electrician trade in construction industry.



### CON/ N 0051: Wall chasing & conduit fixing for concealed wiring

National Occupational Standard	<b>Unit Code</b>	CON / N 0051
	<b>Unit Title (Task)</b>	Wall chasing & Conduit fixing for concealed wiring
	<b>Description</b>	This unit describes the skill and knowledge for wall chasing and conduit fixing for concealed wiring relevant to electrician trade in construction
	<b>Scope</b>	<b>Wall chasing &amp; Conduit fixing for concealed wiring</b>
	<b>Performance Criteria(PC) w.r.t. the Scope</b>	
	<b>Element</b>	<b>Performance Criteria</b>
	<b>Wall chasing &amp; Conduit fixing for concealed wiring</b>	<p>To be competent, the user/individual on the job under close supervision should be able to:</p> <p>PC1. Arrange, shift, and stack the required materials, tools and tackles at the identified location.</p> <p>PC2. Use the required safety gadgets</p> <p>PC3. Follow the trade safety procedures relevant to task</p> <p>PC4. Mark and chase the wall as per standard practice</p> <p>PC5. Complete the task within specified time</p> <p>PC6. Maintain site tidiness.</p> <p>PC1 To PC6 assessment based on their performance and efficiency through questions &amp; answers and physical performance within the stipulated time.</p>
	<b>Knowledge and Understanding (K)</b>	
	<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	<p>On the job the individual needs to apply organizational knowledge of:</p> <p>KA1. Appreciate safe working methods and basic human kinetics</p> <p>KA2. Safety on various personal Protection and Use of safety Gears, Safety equipment &amp; safety drills</p> <p>KA3. Procedure followed while working at heights.</p> <p>KA4. First Aid, Housekeeping &amp; other related environment aspects against safety.</p>
	<b>B. Technical Knowledge</b>	<p>On the job the individual needs to apply technical knowledge of :</p> <p>KB1. Tools and equipment used for wall chasing.</p> <p>KB2. Safety involved in working at height.</p> <p>KB3. Process of accessibility &amp; site tidiness.</p>
<b>Skills (S)</b>		
<b>A. Core Skills/ Generic Skills</b>	<b>Writing Skills</b>	
	On the job the individual needs to be able to: SA1. Make list of items & materials	
	<b>Reading Skills</b>	
	On the job the individual needs to be able to: SA2. Read instructions, guidelines, sign boards, safety rules & safety tags.	
<b>B. Professional Skills</b>	<b>Oral Communication (Listening and Speaking skills)</b>	
	The user/individual should know and understand how to: SA3. Listen and follow instructions. SA4. Effective oral communication	
	<b>Decision Making</b>	
	The user/individual on the job should know and understand how to: SB1. Under guidance of Assistant Electrician Level-2 & above	



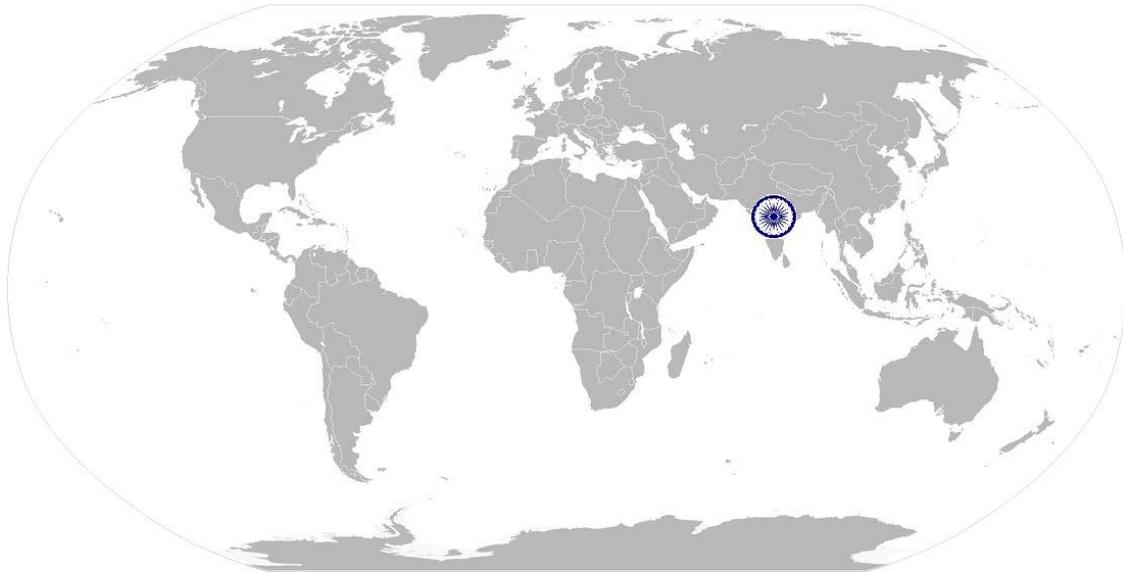
### CON/ N 0051: Wall chasing & conduit fixing for concealed wiring

	<b>Plan and Organize</b>
	The user/individual on the job should know and understand how to: SB2. Select tools & equipment SB3. Sufficient quantity of required materials
	<b>Customer Centricity</b>
	The user/individual on the job should know and understand how to: SB4. Answerable to Assistant Electrician Level-2 & above
	<b>Problem Solving</b>
	The user/individual on the job should know and understand how to: SB5. Under guidance of Assistant Electrician Level-2 & above
	<b>Analytical Thinking</b>
	The user/individual on the job should know and understand how to: SB6. As per performance criteria
	<b>Critical Thinking</b>
	The user/individual on the job should know and understand how to: SB7. Wall chasing as per layout.
	<b>Attention to Detail</b>
	The user/individual on the job should know and understand how to: SB8. Avoid waste of material SB9. Keep work area free from of debris
<b>Team Working</b>	
The user/individual on the job should know and understand how to: SB10. Coordination in housekeeping activities. SB11. Coordination with Assistant Electrician Level-2 & above SB12. Take care of workmates in case of requirement and at emergency	



**CON/ N 0052: External Threading on MS conduit**

# National Occupational Standard



## Overview

This NO covers the skills and knowledge required by an individual to be proficient for external threading on MS conduit relevant to electrician occupation.



### CON/ N 0052: External Threading on MS conduit

National Occupational Standard	<b>Unit Code</b>	CON / N 0052
	<b>Unit Title (Task)</b>	External Threading on MS conduit
	<b>Description</b>	This unit describes the skill and knowledge required for external threading on MS conduit .
	<b>Scope</b>	<b>External Threading on MS conduit</b>
	<b>Performance Criteria(PC) w.r.t. the Scope</b>	
	<b>Element</b>	<b>Performance Criteria</b>
	<b>External Threading on MS conduit</b>	To be competent, the user/individual on the job must be able to: PC1. Measure & mark the MS conduit PC2. Hold the conduit in pipe vice PC3. Cut the conduit at marking point and do the finishing. PC4. Fix die cutter in die stock as per instructions. PC6. Use of die stock and lubricant as per requirement. PC7. Follow trade safety. PC8. Complete task as per Productivity Norms. PC9. Maintain standard housekeeping practice The assessment based on their performance and efficiency in material handling & storing shall be assessed through questions & answers and physical performance within the stipulated time for PC1 to PC9.
	<b>Knowledge and Understanding (K)</b>	
	<b>A. Organizational Context</b> (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. Appreciate safe working methods and basic human kinetics KA2. Various personal Protection equipments and Use of safety Gears & safety drills KA3. Knowledge of First Aid, House Keeping & other related environment aspects
	<b>B. Technical Knowledge</b>	The user/individual on the job needs to know and understand: KA4. Marking, Cutting, Filing & Threading tools
<b>Skills (S)</b>		
<b>A. Core Skills</b> <b>Generic Skills</b>	<b>Writing Skills</b>	
	The user/ individual on the job should know and understand how to: SA1. Make list of items & materials	
	<b>Reading Skills</b>	
	The user / individual on the job should know and understand how to: SA2. Read instructions, guidelines, sign boards, safety rules &	
	<b>Oral Communication (Listening and Speaking skills)</b>	
	The user/individual should do the following: SA3. Listen and follow instruction carefully SA4. Effective oral communication	

### CON/ N 0052: External Threading on MS conduit

<b>B. Professional Skills</b>	<b>Decision Making</b>
	The user/ individual on the job should know and understand how to: SB1. Identify and use tools SB2. Identify and use of all safety equipments
	<b>Plan and Organize</b>
	The user/ individual on the job should know and understand how to: SB3. Arrange tools and materials as per the instructions of Assistant Electrician level-2
	<b>Customer Centricity</b>
	The user/ individual on the job should know and understand how to: SB4. Answerable to Assistant Electrician level-2 & above.
	<b>Problem Solving</b>
	The user/ individual on the job should know and understand how to: SB5. Under the guidance of Assistant Electrician level-2 & above.
	<b>Analytical Thinking</b>
	The user/ individual on the job should know and understand how to: SB6. Operate hacksaw and die stock as per instructions
	<b>Critical Thinking</b>
	The user/ individual on the job should know and understand how to: SB7. Test the threading with a matching unit
<b>Attention to Detail</b>	
The user/ individual on the job should know and understand how to: SB8. Avoid wastage of materials SB9. Area free of impurities	
<b>Team Working</b>	
The user / individual on the job should know and understand how to: SB10. Work in coordination with Assistant Electrician level-2 SB11. Take care of workmates in case of requirement and at emergency SB12. Coordinate with senior and workmates	

## Assessment Criteria for Helper Electrician

Job Role	Helper Electrician
Qualification Pack	CON/Q0601
Sector Skill Council	Construction

### Guidelines for Assessment

1. Criteria for assessment for Qualification Pack has been created based on the NOSs and performance criteria by CSDCI. Each Performance Criteria (PC) has been assigned marks proportional to its importance within NOS and weightages have also been given among the NOSs accordingly. CSDCI has laid down the proportion of marks for Skills, Theory/Knowledge and Behaviour / Attitudes for each PC.
2. The assessment of the theory/knowledge will be based on written test/viva-voce or both while skill test shall be hands on practical. Behaviour and attitude will be assessed while performing the task.
3. The assessment shall be done as per the assessment sheets devised by CSDCI and accordingly the assessment agencies in consultation with CSDCI will create unique question papers for theory/knowledge and attitude for each candidate at each CSDCI accredited testing centres (as per assessment criteria below)
4. The assessment agencies will conduct the assessment as per the guidelines given by CSDCI having unique evaluations for skill practical for every student at each CSDCI accredited testing centre based on this criteria
5. To pass the Qualification Pack, every trainee should score a minimum of **70% in Skill, 30% in Knowledge and 30% in Behaviour** separately in each attributes.
6. Each student at Level-1 has to pass in Skill, Knowledge and Behaviour as per the percentage given below in totality.

S. No.	NOS No.	NOS Name	Total Marks	Marks Allocation		
				Skills	Knowledge	Behaviour
1	CON/N0048	Health, Safety & Environment applications in Electrician occupation	21	10	7	4
2	CON/N0049	Identification & use of basic tools and equipments	15	10	2	3
3	CON/N0050	Material Handling & Storing	50	34	10	6
4	CON/N0031	Cutting, Filling, Leveling and Compaction of earth	18	11	4	3
5	CON/N0006	Erect and dismantle 3.6 meter temporary Scaffold	19	12	4	3
6	CON/N0051	Wall Chasing & conduit fixing for concealed wiring	48	32	10	6
7	CON/N0052	External threading on MS conduit	74	54	12	8
<b>Total</b>			<b>245</b>	<b>163</b>	<b>49</b>	<b>33</b>
<b>Percentage weightage</b>				<b>67%</b>	<b>20%</b>	<b>13%</b>
<b>Minimum Pass % to qualify</b>				<b>70%</b>	<b>30%</b>	<b>30%</b>