



Model Curriculum

QP Name: Associate Electrician-Aide

QP Code: CON/Q0606

QP Version: 1.0

NSQF Level: 2

Model Curriculum Version: 1.0

Construction Skill Development Council of India | Construction Skill Development Council of India
(CSDCCI), CPB – 103 & 104, Block-4B, DLF corporate Park, Phase – III, MG Road Gurugram – 122002
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Training Parameters

Sector	Construction Skill Development Council of India
Sub-Sector	Real Estate and Infrastructure Construction
Occupation	Construction Electrical Works
Country	India
NSQF Level	2
Aligned to NCO/ISCO/ISIC Code	NCO-2015/9313.0501
Minimum Educational Qualification and Experience	Ability to read and write
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	N/A
Next Review Date	N/A
NSQC Approval Date	N/A
QP Version	Version number 1.0
Model Curriculum Creation Date	15/02/2023
Model Curriculum Valid Up to Date	15/08/2023
Model Curriculum Version	Version number 1.0
Minimum Duration of the Course	210 hrs
Maximum Duration of the Course	210 hrs



Program Overview

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills.

- Handle different tools, measuring devices and materials used for LV electrical work.
- Shift and stack various materials and tools used for electrical work.
- Perform wall chasing work in concealed wiring work.
- Perform laying of conduits in concealed wiring work.
- Perform external threading on MS conduit.
- Identify different components of scaffold.
- Stack all the components of the scaffold after dismantling.
- Demonstrate effective communication with co-workers, superiors and sub-ordinates across different teams.
- Provide support to co-workers, superiors and sub-ordinates within the team and across interfacing teams to ensure effective execution of assigned task.
- Demonstrate practices sensitive to disabilities (physical, mental, intellectual or sensory impairment), cultural diversity and gender neutrality.
- Identify various hazards at construction site.
- Use PPE's relevant to electrical works.
- Perform safe waste disposal at construction site.
- Demonstrate the activities to check the spread of infection as per medical/ organizational guidelines.

Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

NOS and Module Details	Theory Duration (Hrs)	Practical Duration (Hrs)	On-the-Job Training Duration (Mandatory) (Hrs)	On-the-Job Training Duration (Recommended) (Hrs)	Total Duration (Hrs)
CON/N0606 <i>Handle different tools, measuring devices and materials relevant to LV (low voltage) electrical works</i> NOS Version No. 2.0 NSQF Level 2	09:00	36:00	--	--	45:00
Handle different tools, measuring devices and materials relevant to LV (low voltage) electrical works	09:00	36:00	--	--	45:00
CON/N0607 <i>Carry out wall chasing and</i>	09:00	36:00	--	--	45:00



<i>external threading on MS (mild steel) conduit</i> NOS Version No. 2.0 NSQF Level 2					
Wall chasing and external threading on MS (mild steel) conduit	09:00	36:00	--	--	45:00
<i>CON/N8001 Work effectively in a team to deliver desired results at the workplace</i> NOS Version No. 5.0 NSQF Level 2	06:00	24:00	--	--	30:00
Team work and effective communication at workplace	06:00	24:00	--	--	30:00
<i>CON/N8002 Plan and organize work to meet expected outcomes</i> NOS Version No. 1.0 NSQF Level 3	06:00	24:00	--	--	30:00
Prioritise activities and organise resources	06:00	24:00	--	--	30:00
<i>CON/N9001 Work according to personal health, safety and environment protocol at construction site</i> NOS Version No. 7.0 NSQF Level 2	06:00	24:00	--	--	30:00
Follow safety norms as defined by organization, adopt healthy and safe work practices	06:00	24:00	--	--	30:00
DGT/VSQ/N0101: Employability Skills (30 Hours) NOS Version No.1.0 NSQF Level 2	30:00 hrs	00:00	--	--	30:00 hrs
Employability Skills	30:00 hrs	00:00	--	--	30:00 hrs
Total Duration	84:00 hrs	126:00 hrs	--		210:00 hrs



Module Details

Module 1: Handle different tools, measuring devices and materials relevant to LV (low voltage) electrical works

Mapped to CON/N0606

Terminal Outcomes:

- Handle different tools, measuring devices and materials used for LV electrical work.
- Shift and stack various materials and tools used for electrical work.

Duration: 09:00	Duration: 36:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • List the different materials, fixtures, tools and equipment relevant to LV electrical work. • Explain the use of common electrical measuring devices required to undertake LV electrical tests/ inspections. • List the common construction equipment used in other construction activities such as bar bending, concreting etc. • List the types of circuit breakers, starters, relays including their areas of use. • Explain physical and chemical properties of good conductor, semi-conductor and bad conductor materials. • Explain basic concept of electrical current flow and factors which influence electrical flow through conductor. • Explain standard practice of material handling and storing at workplace. 	<ul style="list-style-type: none"> • Demonstrate the use of different hand and power tools relevant to LV electrical works. • Demonstrate the use of measuring and marking tools relevant to LV electrical installation work. • Demonstrate standard procedure of shifting lights, cables, conduits, cable trays, brackets, DBs, ladders and other relevant materials. • Demonstrate storing and stacking of electrical materials as per standard practices. • Demonstrate standards practice of tagging materials, tools and tackles.
Classroom Aids:	
Computer, printer, projector, white board/ flip chart, marker and duster	
Tools, Equipment and Other Requirements	
Wall Chasing Chisel, Hammer, Hacksaw, File, Marking Tools, Table Vice, Stock and Die Set, Pipe Cutter, Hand Brooms, Shovels, Screw Driver Set, Measuring Tape, Spirit Level, Plumb-Bob, Mason’s Line, Power Tools, Cutting Machine, Drilling Machine, Power Source, Rigid Conduits, Flexible Conduit, Clamps For Conduits, Screws, Helmet, Safety Shoes, Safety Belt, Cotton Hand Gloves, Goggles, Reflective Jackets, Safety Message Boards, Fire Extinguishers, Sand Buckets	



Module 2: Carry out wall chasing and external threading on MS (mild steel) conduit

Mapped to CON/N0607

Terminal Outcomes:

- Perform wall chasing work in concealed wiring work.
- Perform laying of conduits in concealed wiring work.
- Perform external threading on MS conduit.

Duration: 09:00	Duration: 36:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain electrical wiring methods adopted in electrification of buildings. • Identify electrical fixtures used in electrical wiring works. • Explain concealed electrical wiring and its use. • Discuss the use of power tools and hand tools required for wall chasing and threading of conduits. • Explain common accessories used for fixing of conduits • Explain specification of conduits and their uses. • Explain standard procedure of handling and storing of electrical materials required for wiring work. 	<ul style="list-style-type: none"> • Demonstrate marking and measurement on the wall prior to chasing. • Demonstrate how to chase the wall of given depth using appropriate tools. • Perform fixing of conduit in the chased wall using appropriate accessories. • Perform cutting and edge preparation of MS conduits. • Demonstrate threading of MS conduits using die and tap. • Demonstrate maintenance/ upkeep of electrical fixtures, tools and equipment.
Classroom Aids:	
Computer, printer, projector, white board/ flip chart, marker and duster	
Tools, Equipment and Other Requirements	
Wall Chasing Chisel, Hammer, Hacksaw, File, Marking Tools, Table Vice, Stock And Die Set, Pipe Cutter, Hand Brooms, Shovels, Screw Driver Set, Measuring Tape, Spirit Level, Plumb-Bob , Mason’s Line , Power Tools, Cutting Machine, Drilling Machine, Power Source, Rigid Conduits, Flexible Conduit, Clamps For Conduits, Screws, Helmet , Safety Shoes , Safety Belt, Cotton Hand Gloves, Goggles, Reflective Jackets, Safety Message Boards, Fire Extinguishers, Sand Buckets	



Module 3: Team work and effective communication at workplace Mapped to CON/N8001

Terminal Outcomes:

- Demonstrate effective communication with co-workers, superiors and sub-ordinates across different teams
- Provide support to co-workers, superiors and sub-ordinates within the team and across interfacing teams to ensure effective execution of assigned task.
- Demonstrate practices sensitive to disabilities (physical, mental, intellectual or sensory impairment), cultural diversity and gender neutrality.

Duration: 06:00	Duration: 24:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the effects and benefits of timely actions relevant to the task at hand with examples. • Explain the importance of teamwork and its effects relevant to the task at hand with examples. • Explain the importance of proper and effective communication and its adverse effects in case of failure of proper communication. • Discuss about gender and its related concept: gender equality, gender equity (group work) • Discuss different types of disabilities (physical, mental, intellectual or sensory impairment). • Discuss the activities sensitive to the cultural diversity, disabilities and gender neutrality at the workplace. • Discuss the basic rules and regulations related to gender sensitivity, disabilities, and cultural diversity, with their impact on operations of a workplace. • Discuss how to take initiative in resolving issues among co-workers in a given situation. • Discuss reporting procedure followed at the workplace. 	<ul style="list-style-type: none"> • Apply effective communication skills while interacting with co-workers, trade seniors and others during the assigned task. • Use appropriate writing skills and verbal communication reporting as per commonly applicable organisational norms. • Demonstrate teamwork skills during assigned task. • Demonstrate acceptable interpersonal transactions with individuals having disabilities (physical, mental, intellectual or sensory impairment) or cultural diversity. • Demonstrate the process modifications required to make the workplace free from gender biases.
Classroom Aids:	
Black/White board, Marker, Projector/LED Monitor, Computer, Trade specific charts, Safety tags, Safety Notice board, Registers and other teaching aids	
Tools, Equipment and Other Requirements	
N/A	



Module 4: Prioritise activities and organise resources

Mapped to CON/N8002

Terminal Outcomes:

- Demonstrate prioritizing of work activities to achieve the desired productivity.
- Demonstrate organizing of resources as per work plan prior to commencement of work.

Duration: 06:00	Duration: 24:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain methods to upkeep, store and stack tools, materials used for domain specific works. • Explain the process of planning of the given tasks and activities relevant to the trade/job role within defined scope and duration. • Explain the procedure adopted for prioritizing an activity and sequencing of activities. • Explain the work plan and flow of activities in sequence for the assigned work. • Explain basic concept of labour productivity and work productivity. • Explain requisition of resources, reporting for requirement of resources orally and in written to concerned authority. • Explain how to minimise wastage of resources. • Explain the plan for waste collection and disposal after task. • • 	<ul style="list-style-type: none"> • Identify the work target and plan activities to achieve the desired productivity. • Demonstrate requisition of resource citing an example. • Demonstrate the planning for various activities relevant to task as per the scope and schedule. • Demonstrate how to organise the required tool, manpower and material resources for the assigned task. • Select required quantity of materials, tools or devices for defined work activities. • Demonstrate how to prioritize all works/ activities to maximise output. • Demonstrate optimum use of resources while performing domain specific work activities. • Demonstrate waste collection and disposal as per organisational norms. • Demonstrate completion of work within stipulated time and plan.
Classroom Aids:	
Black/White board, marker, Projector/LED Monitor, Computer, Trade specific charts, Safety tags, Safety Notice board, registers and other teaching aids	
Tools, Equipment and Other Requirements	
N/A	



Module 5: Follow safety norms as defined by organization, adopt healthy and safe work practices
Mapped to CON/N9001

Terminal Outcome:

- Identify various hazards at construction site.
- Use PPE’s relevant to electrical works.
- Perform safe waste disposal at construction site.
- Demonstrate the activities to check the spread of infection as per medical/ organizational guidelines.

Duration: 06:00	Duration: 24:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the types of hazards at the construction sites and identify the hazards specific to the domain related works. • Recall the safety control measures and actions to be taken under emergency situation. • Explain the classes of fire and types of fire extinguishers. • Explain the importance of participation of workers in safety drills. • Explain the reporting procedure to the concerned authority in case of emergency situations. • Describe the standard procedure for handling, storing and stacking of material, tools, equipment and accessories. • Explain different types of waste at construction sites and their disposal method. • Explain the purpose and importance of vertigo test at construction site. • List out basic medical tests required for working at construction site. • Explain the types and benefits of basic ergonomic principles, which should be adopted while carrying out specific task at the construction sites. • Explain the importance of housekeeping works. • List different types of infectious disease that can spread/ originate at a construction site • Discuss the ways of transmission of the various infectious disease. 	<ul style="list-style-type: none"> • Demonstrate the operating procedure of the fire extinguishers. • Demonstrate use of PPEs as per work requirements. • Demonstrate vertigo test. • Demonstrate safety techniques to be adopted in case of accidents. • Demonstrate safe waste disposal practices followed at construction site. • Demonstrate safe housekeeping practices. • Demonstrate the practices to maintain personal hygiene, workplace hygiene and site/ workplace sanitization. • Demonstrate the methods to clean and disinfect all materials, tools and supplies before and after use. • Demonstrate the procedure to report to the concerned authority regarding the outbreak/ hazard of any infectious disease/ pandemic.



<ul style="list-style-type: none">• Explain the methods to check the spread of the infectious disease.• Describe the symptoms and cure of the various infectious disease.	
Classroom Aids:	
Black/White board, Marker, Projector/LED Monitor, Computer, Trade specific charts, Safety tags, Safety Notice board, Registers and other teaching aids	
Tools, Equipment and Other Requirements	
Leather Hand Gloves, Jump suit, Wire brush, Hand & Leg guard leather, Safety goggles, Nose mask, Ear protection, Fire extinguishers, Sand buckets Flashback arrestors, Welding helmet, Welding glass, Fire Extinguisher, Fire prevention kit, First Aid box, Safety tags, Safety Notice board	



Module 7: Employability Skills

Mapped to DGT/VSQ/N0101

Terminal Outcome:

- Introduction to Employability Skills
- Constitutional values - Citizenship
- Becoming a Professional in the 21st Century
- Basic English Skills
- Communication Skills
- Diversity & Inclusion
- Financial and Legal Literacy
- Essential Digital Skills
- Entrepreneurship
- Customer Service
- Getting ready for apprenticeship & Jobs

Duration: 30:00	Duration: 00:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Discuss the importance of Employability Skills in meeting the job requirements • Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen. • Show how to practice different environmentally sustainable practices • Discuss 21st century skills. • Display positive attitude, self-motivation, problem solving, time management skills and continuous learning mindset in different situations. • Use appropriate basic English sentences/phrases while speaking • Demonstrate how to communicate in a well-mannered way with others. • Demonstrate working with others in a team • Show how to conduct oneself appropriately with all genders and PwD • Discuss the significance of reporting sexual harassment issues in time • Discuss the significance of using financial products and services safely and securely. • Explain the importance of managing expenses, income, and savings. • Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws 	



<ul style="list-style-type: none">• Show how to operate digital devices and use the associated applications and features, safely and securely• Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely• Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges• Differentiate between types of customers• Explain the significance of identifying customer needs and addressing them• Discuss the significance of maintaining hygiene and dressing appropriately• Create a biodata• Use various sources to search and apply for jobs• Discuss the significance of dressing up neatly and maintaining hygiene for an interview• Discuss how to search and register for apprenticeship opportunities	
Classroom Aids:	
Computer, printer, projector, white board/ flip chart, marker and duster	
Tools, Equipment and Other Requirements	
Computer (PC) with latest configurations – and Internet connection with standard operating system and standard word processor and worksheet software (Licensed) (all software should either be latest version or one/two version below), UPS, Scanner cum Printer, Computer Tables, Computer Chairs, LCD Projector, White Board 1200mm x 900mm	



Annexure

Trainer Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
Post-Graduation/ Graduation in Engineering	M. Tech in Civil/B. Tech in civil	Six months	Electrical Engineering	0	Electrical Engineering	As a pre-requisite for new entrant, no prior experience in training /assessment is mandatory. However, if someone with prior experience in requisite domain joins, experience will be measured in terms of relevant industry experience.
Diploma	Diploma in Civil	One	Electrical Engineering	0	Electrical Engineering	
Graduation/ Ex. Army /ITI /12 th pass	General B.A./B.Sc./ Graduation certificate from Army/ITI certificate in relevant trade/12 th pass	Two	Working as Construction electrician LV/ electrical domain/Experience at Supervisory role in electrical domain	0	Working as Construction electrician LV/ electrical domain/Experience at Supervisory role in electrical domain	

Trainer Certification	
Domain Certification	Platform Certification
Trainer-70 % in each NOS of Qualification Pack “Electrician Aide , CON/Q0606 v 1.0” & 80% overall	Trainers -80% in each NOS of Qualification Pack “MEP/Q2601, v2.0” and 80% overall



Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
Post-Graduation/ Graduation in Engineering	M. Tech in Civil/B. Tech in civil	One	Electrical Engineering	0	Electrical Engineering	As a pre-requisite for new entrant, no prior experience in training /assessment is mandatory. However, if someone with prior experience in requisite domain joins, experience will be measured in terms of relevant industry experience.
Diploma	Diploma in Civil	Two	Electrical Engineering	0	Electrical Engineering	
Graduation/ Ex. Army /ITI /12 th pass	General B.A./B.Sc./ Graduation certificate from Army/ITI certificate in relevant trade/12 th pass	Three	Working as Construction electrician LV/ electrical domain/Experience at Supervisory role in electrical domain	0	Working as Construction electrician LV/ electrical domain/Experience at Supervisory role in electrical domain	

Assessor Certification	
Domain Certification	Platform Certification
Assessor-70% in each NOS of Qualification Pack “Electrician Aide, CON/Q0606 v1.0” & 80% overall	Assessors- 80% in each NOS of Qualification Pack “MEP/Q2701, v2.0” and overall 80%.



Assessment strategy

Assessment system Overview

Assessment is done through CSDCI affiliated Assessment Body. Assessors are trained & certified by CSDCI after a 10-day training of assessors program. Assessments is conducted to gauge and assess the trainee's skill and knowledge competency in the specified areas. The assessment will have both theory and practical components in 20:80 ratios for electrician aide job role.

During the practical task, trainees are assessed on their workmanship, quality of finished product and time management. They will be graded for all their assessments based on the approved assessment strategy which is signed off by CSDCI. The Assessor submits an assessment plan to CSDCI prior to assessments.

The assessment plan contains the following information:

- What will be assessed, i.e. the competency based on each NOS based on theory and practical questions
- How assessment will occur i.e. methods of assessment
- When the assessment will occur
- duration of assessment
- Where the assessment will take place i.e. context of the assessment (workplace/simulation)
- The criteria for decision making i.e. those aspects that will guide judgments and
- Where appropriate, any supplementary criteria used to make a judgment on the level of performance.

Testing Environment

Training partner shares the batch start date and end date, number of trainees and the job role.

Assessment will be fixed for a day after the end date of training. It could be next day or later. Assessment will be conducted at the training venue/test center.

The knowledge/theory assessments is conducted with proper seating arrangements with enough space between the candidates to prevent copying.

Question set for theory and practical will be distributed to each candidate by the Assessor. Theory testing will include multiple choice questions, pictorial question, etc. which will test the trainee on his theoretical knowledge of the subject. The skill /practical assessments will be conducted in the approved test centers. The Assessment agency/ Assessor will ensure adequate tools and materials are available to conduct the practical test.

The theory and practical assessments will be carried out on same day. If number of candidates are more than 20, more assessors will be organized on same day to complete the assessment

The assessment has to comprise of two components, namely:

1. Knowledge assessment (theory/viva assessment)
2. Skill assessment (practical/hands-on skill assessment)

Mode of assessment



1. Demonstration/Practical for Performance /Skill Assessment
 2. Synoptic multiple choice question test
 3. Viva
- } For Knowledge Assessment

Performance/skill assessment: The performance/skill assessment will be conducted through demonstration/practical.

For the practical test trainees are assessed through a given task, which they have to complete correctly for them to be marked as passed.

The assessment is conducted in a simulated working environment. Due to this fact, the assessors must note that the naturally occurring evidence of competence is unavailable or infrequent. Simulation must be undertaken in a Realistic Working Environment which provides an environment that replicates the key characteristics of the workplace in which the skill to be assessed is normally employed.

Knowledge Assessment: The knowledge assessments are conducted through written test/ viva.

Synoptic test is used for this. It is an MCQ (Multiple Choice Question) test which are prepared externally and externally marked, meaning by agency having no link with training partners. The test may be conducted by the assessor in the oral mode, if required, considering the lack of reading and comprehending acumen (skills) of trainees. In such cases, the assessor will mention it on top of the MCQ submitted to CSDCI.

The assessment strategy, weightage and duration of assessment for Helper Electrician is summarized below:

Assessment Type	Formative or Summative	Strategies	Weightage	Duration (hours)
Knowledge	Summative	MCQ/Viva	20	1.0
Skill	Summative	Structured practical task	80	5.0

Assessment Quality Assurance framework

CSDCI has developed assessment criteria framework for each Qualification pack as per National Occupational Standards. The criteria framework includes weightages/marks for each criteria under knowledge and skill. This criteria ensures quality assurance as it ensures valid, consistent and fair assessments at all locations. Issued to the affiliated Assessment body. The Assessment body develop questions based on CSDCI issued assessment criteria.

Evidences in the form of answer sheets in case of knowledge assessments are collected. For skill assessments videos and photographs are prepared as evidence. These are submitted by the assessor to the assessment agency. CSDCI does random checks of the same with the participant/ trainee's ID and ascertains authenticity and validity of assessments.



The training partner will intimate the time of arrival of the assessor and time of leaving the venue. Random spot checks/audit is conducted by CSDCI to monitor assessment.

Methods of Validation

Unless the trainee is registered, the person cannot undergo assessment. To further ensure that the person registered is the person appearing for assessment, id verification is carried out. Aadhar card number is part of registering the candidate for training. This forms the basis of further verification during the assessment.

Assessor conducts the assessment through theory and practical questions developed in accordance with the assessment criteria and guidelines issued by CSDCI. This too is verified by random audits carried out by CSDCI. The assessments may also be carried out on line.

Evidences for assessments are to be collected and submitted to CSDCI for verification as per demand.

Assessment agency is responsible to put details in SIP. CSDCI will also validate the data and result received from the assessment agency.

Method of assessment documentation and access

The assessment agency will upload the result of assessment in the portal. The data will not be accessible for change by the assessment agency after the upload. The assessment data will be validated by CSDCI assessment team. After upload, only CSDCI can access this data.

CSDCI approves the results within five days after which results are uploaded on SIP by Assessment Agency.



References

Glossary

Term	Description
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training.
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome.
CON	Construction
MCQ	Multiple Choice Questions
VIVA	Viva voce (means oral exam)



Acronyms and Abbreviations

Term	Description
QP	Qualification Pack
NSQF	National Skills Qualification Framework
NSQC	National Skills Qualification Committee
NOS	National Occupational Standards
CSDCI	Construction Skill development Council of India
MCQ	Multiple Choice Question
PPEs	Personal Protective Equipment
SIP	Skill India Portal
LV	Low Voltage
MS	Mild Steel
LED	Light Emitting Diode
AC	Alternate Current
DC	Direct Current
MCB	Miniature Circuit Breaker
ELCB	Earth Leakage Circuit Breaker
RCCB	Residual Current Circuit Breaker