



Model Curriculum

QP Name: Assistant Electrician (Divyangjan)

QP Code: PWD/CON/Q0602

QP Version: 2.0

NSQF Level: 3

Model Curriculum Version: 1.0

Expository: Locomotor Disability (E001)

Skill Council for Person with Disability | | Address: 501-City Centre, 12/5 Dwarka New Delhi – 110075



Table of Contents

Training Parameters	3
Program Overview	4
Training Outcomes	4
Compulsory Modules	4
Module Details	6
Module 1: Introduction to the job role of Assistant Electrician	7
Module 2: Use hand, power tools and electrical devices relevant to construction electrical works	8
Module 3: Install temporary lighting arrangement at construction sites	9
Module 4: Install LV electrical wiring at permanent structures	10
Module 5: Assembling, installation and maintenance of LV electrical wiring at permanent structures	11
Module 6: Communicate effectively at workplace	12
Module 7: Prioritize activities and organize resources	13
Module 8: Follow personal health, safety, and environment protocol at construction site	14
Annexure	16
Trainer Requirements	16
Assessor Requirements	17
Assessment strategy	18
Guidelines for trainers	21



Training Parameters

Sector	Construction Skill Development Council of India
Sub-Sector	Real Estate and Infrastructure Construction
Occupation	Construction Electrical Works
Country	India
NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7411.0100
Minimum Educational Qualification and Experience	<p>10th Grade pass OR Grade 9 with one year of experience OR Grade 8 with two year of (NTC/ NAC) after 8 th OR 8th grade pass with 2 year relevant Experience OR Grade 8 pass and pursuing continuous schooling in regular school with vocational subject OR 5th grade pass with 5 year relevant Experience OR Previous relevant Qualification of NSQF Level 2 with 1 year relevant Experience OR 8th Grade pass with no experience /In addition to Notional hours OJT/internship of 8 months 5th grade pass with no experience / In addition to Notional hours OJT/internship of 20 months Previous relevant Qualification of NSQF Level 2 with no Experience / In addition to Notional hours OJT/internship of 4 months</p>
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	20/01/2021
Next Review Date	31/01/2027



NSQC Approval Date	31/01/2023
QP Version	2.0
Model Curriculum Creation Date	02/01/2021
Model Curriculum Valid Up to Date	31/01/2027
Model Curriculum Version	1.0
Minimum Duration of the Course	450 hrs.
Maximum Duration of the Course	450 hrs.



Program Overview

This section summarizes the end objectives of the program along with its duration.

Training Outcomes

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

- Use appropriate hand, power tools and electrical devices/ components.
- Install electrical material components and fixtures for temporary lighting arrangement.
- Perform maintenance of lighting arrangement.
- Operate basic test on lighting arrangement.
- Lay conduit in RCC and brick/ block masonry.
- Perform LV wiring in house electrification work.
- Assemble and install temporary LV electrical panels/ distribution boards
- Perform electrical earthing of panel/DB
- Perform maintenance of panels/distribution boards
- 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.
- Demonstrate prioritizing of work activities to achieve the desired productivity.
- Demonstrate organizing of resources as per work plan prior to commencement of work.
- Identify various hazards at construction site.
- Use PPE's relevant to construction electrician 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)
Bridge Module	10:00	20:00	00:00	00:00	30:00
Introduction to the job role - (Lecture/ description by concerned trainer)	10:00	20:00	00:00	00:00	30:00
CON/N0602Select and use hand, power tools and electrical devices relevant to construction electrical works	15:00	15:00	00:00	00:00	30:00



Handle hand and power tools relevant to construction electrical works	15:00	15:00	00:00	00:00	30:00
CON/N0603 Install temporary lighting arrangement at construction sites NOS Version No. 2.0NSQF Level 3	20:00	70:00	00:00	00:00	90:00
Install temporary lighting arrangement at construction sites	20:00	70:00	00:00	00:00	90:00
CON/N0604 Assist in LV (low voltage) electrical wiring at permanent structures NOS Version No. 2.0 NSQF Level 3	20:00	70:00	00:00	00:00	90:00
Assist in LV (low voltage) electrical wiring at permanent structures	20:00	70:00	00:00	00:00	90:00
CON/N0605 Assemble, install and maintain temporary LV electrical panels (distribution boards) at construction site NOS Version No. 2.0 NSQF Level 3	25:00	65:00	00:00	00:00	90:00
Assemble, install and maintain temporary LV electrical panels (distribution boards) at construction site	25:00	65:00	00:00	00:00	90:00
CON/N8001 Work effectively in a team to deliver desired results at the workplace NOS Version No.1.1 NSQF Level 3	10:00	20:00	00:00	00:00	30:00
Communicate effectively at workplace	10:00	20:00	00:00	00:00	30:00
CON/N8002 Plan and organize work to meet expected outcomes NOS Version No. 1.0 NSQF Level 3	10:00	20:00	00:00	00:00	30:00
Prioritise activities and organise resources	10:00	20:00	00:00	00:00	30:00



CON/N9001 Work according to personal health, safety and environment protocol at construction site NOS Version No.6.0 NSQF Level 3	10:00	20:00	00:00	00:00	30:00
Follow safety norms as defined by organization, adopt healthy and safe work practices	10:00	20:00	00:00	00:00	30:00
Employability Skills	30:00	00:00	0:00	0:00	30:00
Introduction to Employability Skills	01:00	0:00	0:00	0:00	01:00
Constitutional values – Citizenship	01:00	0:00	0:00	0:00	01:00
Becoming a Professional in the 21st Century	01:00	0:00	0:00	0:00	01:00
Basic English Skills	02:00	0:00	0:00	0:00	02:00
Career Development & Goal Setting	04:00	0:00	0:00	0:00	04:00
Communication Skills	01:00	0:00	0:00	0:00	01:00
Diversity & Inclusion	04:00	0:00	0:00	0:00	04:00
Financial and Legal Literacy	03:00	0:00	0:00	0:00	03:00
Essential Digital Skills	07:00	0:00	0:00	0:00	07:00
Entrepreneurship	04:00	0:00	0:00	0:00	04:00
Customer Service	02:00	0:00	0:00	0:00	02:00
Total Duration	150:00	300:0	00:00	00:00	450:00



Module Details

Module 1: Introduction to Assistant Electrician job role *Bridge Module*

Terminal Outcomes:

- Explain the role and responsibilities of Assistant Electrician.
- Discuss the career progression for the Assistant Electrician.

Duration: 10:00	Duration: 20:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe the role and responsibilities of an assistant electrician. • Define the personal attributes required in occupation of construction electrician works. • Explain future possible progression and career options for role of an assistant electrician. 	
Classroom Aids:	
Computer, printer, projector, white board/ flip chart, marker, and duster	
Tools, Equipment and Other Requirements	
Computer, Sticky Keys, Foot Pedals, Access Switches, Wheelchair, Walker, One-Handed Keyboard, Pencil Gripper, Automatic Page Turner, Grab Bars, Speech to Text software	



Module 2: Handle hand and power tools relevant to construction electrical works

Mapped to CON/N0602, v.2.0

Terminal Outcomes:

- Use appropriate hand, power tools and electrical devices/ components

Duration: 15:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain basic principle of electrical current flow and fundamental concept of alternate and direct current, voltage, resistance, temperature, cross section of conductors, etc. • Explain Ampere's law, Ohm's law, and electromagnetic field. • Explain the application of tester, multimeter, digital ammeter etc. • Interpret wiring symbols, SLDs, manufacturer's guidelines and electrical specifications • Discuss use of various electrical hand and power tools such as pliers, crimping tools, electrical drill machines, cutting machines etc. during electrical wiring of house/ building. • Explain type of electrical devices like starters, relays and circuit breakers, their power ratings, working principles and use in circuits. • Describe features of switches, fuses, resistors, and various circuit protecting devices and their use in electrical circuits and connections. • Discuss about the electrical measuring/ testing tools and devices such as voltage tester, earth tester, multimeter, digital ammeter, meggers, tong tester, etc. 	<ul style="list-style-type: none"> • Demonstrate how to check proper and safe working of hand and power tools. • Perform fitting of conduits, cables wiring, fixing of electrical fixtures, electrical connection termination at power outlets, etc. using hand and power tools. • Measure size and dimension of wires, conduits as per electrical installation/ maintenance work requirement using measuring instruments • Perform basic inspections of electrical circuits/ wiring using electrical devices like ammeter, voltmeter, meggers, multi-meter, tong tester, earth tester, etc. • Install electrical components like starter, circuit breakers, relays, etc. • Perform maintenance of electrical tools, devices post use as per manufacturer's guidelines.
Classroom Aids:	
Computer, printer, projector, white board/ flip chart, marker, and duster	
Tools, Equipment and Other Requirements	
Pliers, Screw Drivers (set), Crimping tools, Wire strippers, Neon tester, Ammeter, Voltmeter, Wattmeter, Ohmmeter, Digital Multimeter, Megger, Tong tester, Measuring tape, Spirit level Marking tools, Drilling machine, Cutting machine, Chasing machine, Electrical socket (set), Tungsten bulb/ CFL/FSL bulb, Halogen lamp, wall socket, Simple switchboard, Mains breaker switch, Earth Leakage Circuit Breaker (ELCB), Miniature Circuit Breaker (MCB), Helmet, Face shield, Safety goggles, Safety shoes, Safety belt, Insulated rubber gloves, Ear plugs, Particle masks, Reflective jackets, Safety message boards, Fire extinguishers, Sand buckets, Computer, Sticky Keys, Foot Pedals, Access Switches, Wheelchair, Walker, One-Handed Keyboard, Pencil Gripper, Automatic Page Turner, Grab Bars, Speech to Text software	



Module 3: Install temporary lighting arrangement at construction sites

Mapped to CON/N0603, v2.0

Terminal Outcomes:

- Install electrical material components and fixtures for temporary lighting arrangement.
- Perform maintenance of lighting arrangement
- Operate basic test on lighting arrangement

Duration: 20:00	Duration: 70:00
<p>Theory – Key Learning Outcomes</p> <ul style="list-style-type: none"> • Interpret Single line diagram (SLD)/ schematics/electrical wiring diagrams for the requirements and specifications of temporary lighting arrangement at the construction site. • Describe types of cables based on insulation, phase, and their use as per power rating. • Explain types of conduits and fixtures such as switches, sockets, their selection method, and respective uses in electrical works. • Describe types of safety equipment commonly used for protection of LV wiring circuits and their area of application. • Explain standard/ safe practice of cable laying at construction sites such as through underground conduits, through poles. • Describe types of lights units, their wattage and respective use in construction sites. • Explain standard practices of fixing lights and their respective accessories. • Explain type of faults associated with lighting arrangements. • Explain type of tests to be undertaken in lighting units and its accessories such as voltage test, leakage test, power interruption/ continuity test etc. • Explain standard conditions for storing and stacking electrical units, materials, fixtures, tools, and devices. • Describe safe procedure of erection and dismantling of temporary scaffolding, ladders or working platforms. 	<p>Practical – Key Learning Outcomes</p> <ul style="list-style-type: none"> • Perform visual checks on electrical fixtures and materials related to lighting for their usability as per specified acceptance criteria • Select cables, lights and electrical fixtures depending upon electrical load requirement • Perform laying of cables through underground and overhead as per requirement as per SLD/ schematics/ electrical wiring diagram • Perform joining of cable in 'straight through joint' methods using PVC tapes or other safe methods • Demonstrate termination of LV cables as per standard practice • Demonstrate method of tagging electrical cables, underground electrical conduits by standard method • Perform repairing of electrical lighting arrangements. • Demonstrate methods of trace out short circuits, power interruptions/ continuity using appropriate electrical devices • Perform preventive maintenance on diesel generators.
<p>Classroom Aids:</p> <p>Computer, printer, projector, white board/ flip chart, marker, and duster</p>	
<p>Tools, Equipment and Other Requirements</p> <p>Pliers, Screw Drivers (set), Crimping tools, Wire strippers, Neon tester, Ammeter, Voltmeter, Wattmeter, Ohmmeter, Digital Multimeter, Megger, Tong tester, Measuring tape, Spirit level Marking tools, Drilling machine, Cutting machine, Chasing machine, Electrical socket (set), Tungsten bulb/ CFL/FSL bulb, Halogen lamp, wall socket, Simple switchboard, Mains breaker switch, Earth Leakage Circuit Breaker (ELCB), Miniature Circuit Breaker (MCB), Helmet, Face shield, Safety goggles, Safety shoes, Safety belt, Insulated rubber gloves, Ear plugs, Particle masks, Reflective jackets, Safety message boards, Fire extinguishers, Sand buckets, Computer, Sticky Keys, Foot Pedals, Access Switches, Wheelchair, Walker, One-Handed Keyboard, Pencil Gripper, Automatic Page Turner, Grab Bars, Speech to Text software</p>	



Module 4: Assist in LV (low voltage) electrical wiring at permanent structures

Mapped to CON/N604, v2.0

Terminal Outcomes:

- Lay conduit in RCC and brick/ block masonry
- Perform LV wiring in house electrification work.

Duration: 20:00	Duration: 70:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain type of electrical hazards associated with domestic wiring work, consequence of faulty/ improper wiring works and standard safety control measures. • Describe types of safety equipment commonly used for protection of domestic wiring circuits and their area of application. • Explain type of electrical materials and fixtures such as conduits, raceways, brackets, etc., used for domestic wiring works and their required acceptance criteria for using. • Interpret single phase LV wiring diagram • Describe standard conduit laying and fixing procedure through brick and concrete structures. • Explain standard practices of cable/ wire laying through conduits and tests to be done to ensure there is no breakage/ leakage from the wire. • Explain electrical earthing procedure in domestic wiring and its importance • Describe material, tools and equipment used forelectrical earthing works. • Explain test to be performed in domestic electrical wiring works using appropriate measuring devices. 	<ul style="list-style-type: none"> • Perform visual checks on electrical fixtures and materials related to domestic wiring such as conduits, raceways, wires to ascertain their usability as per specified acceptance criteria. • Demonstrate use of measuring instruments and cutting tools such as measuring tapes, markers, cutters to cut and bend conduits • Demonstrate use of hand and power tools for cutting drilling works for proper fixing of conduits and raceways as per wiring drawing. • Demonstrate method of termination of electrical wires/cables. • Perform electrical tests like voltage drop, continuity of current flow and resistance in insulations. • Demonstrate handling and storing electrical fixtures and materials used for domestic wiring. • Perform installation of earthing components.
Classroom Aids:	
Computer, printer, projector, white board/ flip chart, marker, and duster	
Tools, Equipment and Other Requirements	
Pliers, Screw Drivers (set), Crimping tools, Wire strippers, Neon tester, Ammeter, Voltmeter, Wattmeter, Ohmmeter, Digital Multimeter, Megger, Tong tester, Measuring tape, Spirit level Marking tools, Drilling machine, Cutting machine, Chasing machine, Electrical socket (set), Tungsten bulb/ CFL/FSL bulb, Halogen lamp, wall socket, Simple switchboard, Mains breaker switch, Earth Leakage Circuit Breaker (ELCB), Miniature Circuit Breaker (MCB), Helmet, Face shield, Safety goggles, Safety shoes, Safety belt, Insulated rubber gloves, Ear plugs, Particle masks, Reflective jackets, Safety message boards, Fire extinguishers, Sand buckets, Computer, Sticky Keys, Foot Pedals, Access Switches, Wheelchair, Walker, One-Handed Keyboard, Pencil Gripper, Automatic Page Turner, Grab Bars, Speech to Text software	

Module 5: Assemble, install, and maintain temporary LV electrical panels(distribution boards)

Mapped to CON/N605, v.2.0

Terminal Outcomes:

- Assemble and install temporary LV electrical panels/ distribution boards
- Perform electrical earthing of panel/DB
- Perform maintenance of panels/distribution boards

Duration: 25:00	Duration: 65:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain types of conduits and fixtures such as switches, sockets, MCBs, wire their selection criteria's. • Describe method of connection temporary panel/ Distribution boards (DB) with main power outlet. • Describe type of faults associated with temporary electrical panels/ DBs and its accessories. • Explain standard procedure of shifting and installing DBs at different locations. • Explain type of tests to be undertaken in temporary panels/ DBs and its accessories such as voltage test, leakage test, power interruption/ continuity test etc. • Describe methods of trace out short circuits, power interruptions/ continuity using appropriate electrical devices. • Explain electrical earthing procedure in temporary panels and its importance • Explain specification and details of material, tools and equipment used for electrical earthing works. • Explain standard storing and stacking procedures of electrical units, materials, fixtures, tools and devices. 	<ul style="list-style-type: none"> • Interpret SLDs, instructions, safety guidelines, manufacturers 'specifications relevant to assembling of temporary panel/ distribution board (DB). • Determine power rating of fixtures to be used in panel/ DB. • Perform Installation of electrical fixtures such as switches, sockets etc. to the panel/ DB as per circuit load requirement. • Carry out connection of electrical fixtures by electric wires within the panel/DB • Demonstrate electrical earthing of panel/DB • Perform connection of panel/ DB to main power source. • Demonstrate method of termination of cables at panel/DB using appropriate fixtures. • Perform electrical tests to be carried out to inspect proper function of panel/DB using appropriate devices. • Perform repairing and replacement of faulty parts with respect to technical specification and power rating. • Perform preparation of reports, documents regarding repairing/ maintenance at specified formats.
Classroom Aids:	
Computer, printer, projector, white board/ flip chart, marker, and duster	
Tools, Equipment and Other Requirements	
Pliers, Screw Drivers (set), Crimping tools, Wire strippers, Neon tester, Ammeter, Voltmeter, Wattmeter, Ohmmeter, Digital Multimeter, Megger, Tong tester, Measuring tape, Spirit level Marking tools, Drilling machine, Cutting machine, Chasing machine, Electrical socket (set), Tungsten bulb/ CFL/FSL bulb, Halogen lamp, wall socket, Simple switchboard, Mains breaker switch, Earth Leakage Circuit Breaker (ELCB) ,Miniature Circuit Breaker (MCB),Helmet ,Face shield , Safety goggles, Safety shoes, Safety belt, Insulated rubber gloves, Ear plugs, Particle masks, Reflective jackets, Safety message boards, Fire extinguishers, Sand buckets, Computer, Sticky Keys, Foot Pedals, Access Switches, Wheelchair, Walker, One-Handed Keyboard, Pencil Gripper, Automatic Page Turner, Grab Bars, Speech to Text software	

Module 6: Communicate effectively at workplace

Mapped to CON/N8001, v.6.0

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: 10:00	Duration: 20:00
<p>Theory – Key Learning Outcomes</p> <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 each situation. • Discuss reporting procedure followed at the workplace. 	<p>Practical – Key Learning Outcomes</p> <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 organizational 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.
<p>Classroom Aids:</p> <p>Black/White board, marker, Projector/LED Monitor, Computer, Trade specific charts, Safety tags, Safety Notice board, registers, and other teaching aids</p>	
<p>Tools, Equipment and Other Requirements</p> <p>Computer, Sticky Keys, Foot Pedals, Access Switches, Wheelchair, Walker, One-Handed Keyboard, Pencil Gripper, Automatic Page Turner, Grab Bars, Speech to Text software</p>	



Module 7: Prioritise activities and organise resources

Mapped to CON/N8002, v.5.0

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: 10:00	Duration: 20:00
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 minimize 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 maximize output. • Demonstrate optimum use of resources while performing domain specific work activities. • Demonstrate waste collection and disposal as per organizational 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	
Computer, Sticky Keys, Foot Pedals, Access Switches, Wheelchair, Walker, One-Handed Keyboard, Pencil Gripper, Automatic Page Turner, Grab Bars, Speech to Text software	



Module 8: Follow safety norms as defined by organization, adopt healthy and safe work practices

Mapped to CON/N9001, v.6.0

Terminal Outcome:

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

Duration: 10:00	Duration: 20:00
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. • Explain the methods to check the spread of the 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.



- 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, Computer, Sticky Keys, Foot Pedals, Access Switches, Wheelchair, Walker, One-Handed Keyboard, Pencil Gripper, Automatic Page Turner, Grab Bars, Speech to Text software



DGT/VSQ/N0101 Employability Skills 30 hours

Mapped to DGT/VSQ/N0101, V1.0

Terminal Outcomes:

- introduction to employability skills
- constitutional values - citizenship
- becoming a professional in the 21st century
- basic english skills
- career development & goal setting
- 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 employability skills required for jobs in various industries • explain ways to explore learning and employability portals • discuss the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc. • explain the significance of 21st Century Skills for employment • explain how to read and understand routine information, notes, instructions, mails, letters etc. written in English • list the difference between job and career • communicate and behave appropriately with all genders and PwD • discuss how to escalate any issues related to sexual harassment at workplace according to POSH Act • list common components of salary and compute income, expenses, taxes, investments etc • discuss relevant rights and laws and use legal aids to fight against legal exploitation • identify and list different types of Entrepreneurship and Enterprises and assess 	<ul style="list-style-type: none"> • demonstrate how to follow environmentally sustainable practices • roleplay the 21st Century Skills such as Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life • practice the use basic English for everyday conversation in different contexts, in person and over the telephone • write short messages, notes, letters, emails etc. in English • prepare a sample career development plan with short- and long-term goals, based on aptitude • practice following verbal and nonverbal communication etiquette and active listening techniques in various settings • role play how to work collaboratively with others in a team • role play how to escalate any issues related to sexual harassment at

<p>opportunities for potential business through research</p> <ul style="list-style-type: none"> • identify and list sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity • explain how to identify different types of customers • identify and list apprenticeship opportunities and register for it as per guidelines and requirements 	<p>workplace according to POSH Act</p> <ul style="list-style-type: none"> • show how to select financial institutions, products and services as per requirement • practice how to carry out offline and online financial transactions, safely and securely • operate digital devices and carry out basic internet operations securely and safely • demonstrate the use of e- mail and social media platforms and virtual collaboration tools to work effectively • practice the use of basic features of word processor, spreadsheets, and presentations • develop a sample business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion • role play how to respond to customer requests and needs in a professional manner • show how to follow appropriate hygiene and grooming standards • create a sample professional Curriculum vitae (Résumé) • practice how to search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively • show how to apply to identified job openings using offline /online methods as per requirement • demonstrate how to answer questions politely, with clarity and confidence, during recruitment and selection
<p>Classroom Aids:</p>	
<p>Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster</p>	
<p>Tools, Equipment and Other Requirements</p>	
<p>PPE, Basic Stationary, digital devices as per the requirement.</p>	

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
Post-Graduation/ Graduation in Engineering	M. Tech in Civil/B. Tech in electrical	One	electrical	0	electrical	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 electrical	Two	electrical	0	electrical	
Graduation/ Ex. Army /ITI /12 th pass	General B.A./B.Sc./ Graduation certificate from Army/ITI certificate in relevant trade/12 th pass	Four	Working experience as construction electrician / supervisory work experience in electrical domain	0	Working experience as construction electrician / supervisory work experience in electrical domain	

Trainer Certification		
Domain Certification	Platform Certification	Disability specific Top Up training
Trainer- 70 % in each NOS of Qualification Pack “Assistant Electrician, CON/Q0602 v2.0” & 80% overall.	Trainers - 80% in each NOS of Qualification Pack “Trainer (VET & Skills) MEP/Q2601, V2.0” and 80% overall.	The Inclusive Trainer should be certified in Disability Specific Top Uptraining PWD/Q0101, v1.0 Trainer-PwD conducted by SCPwD with minimum accepted score of 80% as per SCPwD guidelines.

Assessor Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
Post-Graduation/ Graduation in Engineering	M. Tech in Civil/B. Tech in electrical	Two	electrical	0	electrical	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 electrical	Four	electrical	0	electrical	
Graduation/ Ex. Army /ITI /12 th pass	General B.A./B.Sc./ Graduation certificate from Army/ITI certificate in relevant trade/12 th pass	Five	Working experience as construction electrician / supervisory work experience in electrical domain	0	Working experience as construction electrician / supervisory work experience in electrical domain	

Assessor Certification		
Domain Certification	Platform Certification	Disability specific Top Up training
Assessor- 70% in each NOS of Qualification Pack "Assistant Electrician, CON/Q0203 v2.0" & 80% overall	Assessors- 80% in each NOS of Qualification Pack "Assessor(VET &Skills) MEP/Q2701, V2.0"and overall80%.	The Inclusive Assessor should be certified in Disability Specific Top Up Training conducted by SCPwD with minimum accepted score of 80% as per SCPwD guidelines.



Assessment strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the learner on the required competencies of the program.

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for each PC.
2. Each NOS will be assessed both for theoretical knowledge and practical
3. The assessment will be based on knowledge bank of questions created by the SSC.
4. Individual assessment agencies will create unique question papers for theory and skill practical part for each candidate at each examination/training center
5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS
6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack



Guidelines for Trainer

Persons with Locomotor Disability

Characteristics

- Students with physical disabilities may experience limitations in one of the following ways:
- Writing
- Sitting at a standard desk or on the floor.
- Participating in activities where tables and instruments are difficult to access
- Movements within the class and within the school.
- Mobility in spaces that are not user friendly for wheelchair.

Guidelines for Trainers

1. Provide a supportive and welcoming environment by sensitizing other students /staff for creating a sense of responsibility in them.
2. Make the classroom accessible.
3. Sitting plan should include accommodating a Person using Wheelchair in the front row
4. Provide accessible seating arrangement. The height of the table should be accessible for Persons using wheelchair.
5. Make writers available for written work and for tests and exams if the candidate has difficulty in writing owing to upper limb dysfunction.
6. Give additional time for completing assignments/exams
7. Consider alternative to activities involving writing, drawing and other fine motor activities, such as sorting, threading, solving puzzles, etc. for persons whose upper limbs are affected
8. Free movement of learners within the class must be ensured by keeping the classroom environment clutter free. There should be accessible walking space for safe walking with no protruding objects or obstacles in the classroom/laboratory or corridors.
9. Students can use adapted brushes, modified pencils and thick markers that can be gripped easily, for drawing. Alternatively, the candidates can use stamping methods or paste cut outs. The books, papers, brushes etc. can be fixed on the table with the help of tape etc. so that they do not slip down.
10. For assessment, have students present the material orally or if required, with the help of a scribe. Use objective type, multiple type questions using yes/no or true/false answers



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