



Qualification Pack



Associate Electrician-Aide

QP Code: CON/Q0606

Version: 1.0

NSQF Level: 2

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Qualification Pack

Contents

CON/Q0606: Associate Electrician-Aide	3
<i>Brief Job Description</i>	3
Applicable National Occupational Standards (NOS)	3
<i>Compulsory NOS</i>	3
<i>Qualification Pack (QP) Parameters</i>	3
CON/N0606: Handle different tools, measuring devices and materials relevant to LV(low voltage) electrical works	5
CON/N0607: Carry out wall chasing and external threading on MS(mild steel) conduit	10
CON/N8001: Work effectively in a team to deliver desired results at the workplace	16
CON/N8002: Plan and organize work to meet expected outcomes	20
CON/N9001: Work according to personal health, safety and environment protocol at construction site	25
DGT/VSQ/N0101: Employability Skills (30 Hours)	30
Assessment Guidelines and Weightage	35
<i>Assessment Guidelines</i>	35
<i>Assessment Weightage</i>	36
Acronyms	38
Glossary	39



Qualification Pack

CON/Q0606: Associate Electrician-Aide

Brief Job Description

The job role is responsible for helping the construction electrician and performing tasks under instructions and close supervision. The responsibilities also include performing preparatory works prior to temporary and permanent electrical installations and handling of tools, devices, and materials used to perform electrical works.

Personal Attributes

This job holder is expected to be physically fit to work across various locations with varied environmental conditions. The individual should be team-oriented and safety-driven.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

- [1. CON/N0606: Handle different tools, measuring devices and materials relevant to LV\(low voltage\) electrical works](#)
- [2. CON/N0607: Carry out wall chasing and external threading on MS\(mild steel\) conduit](#)
- [3. CON/N8001: Work effectively in a team to deliver desired results at the workplace](#)
- [4. CON/N8002: Plan and organize work to meet expected outcomes](#)
- [5. CON/N9001: Work according to personal health, safety and environment protocol at construction site](#)
- [6. DGT/VSQ/N0101: Employability Skills \(30 Hours\)](#)

Qualification Pack (QP) Parameters

Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Construction Electrical Works
Country	India
NSQF Level	2



Qualification Pack

Credits	7
Aligned to NCO/ISCO/ISIC Code	NCO-2015/9313.0501
Minimum Educational Qualification & Experience	Ability to read and write
Minimum Level of Education for Training in School	
Pre-Requisite License or Training	NIL
Minimum Job Entry Age	18 Years
Last Reviewed On	NA
Next Review Date	19/07/2023
NSQC Approval Date	19/01/2023
Version	1.0
Reference code on NQR	QG-02-CO-00042-2023-V1-CSDCI
NQR Version	1



Qualification Pack

CON/N0606: Handle different tools, measuring devices and materials relevant to LV(low voltage) electrical works

Description

This unit describes the skills and knowledge required to identify and handle different tools, measuring devices, and materials relevant to LV electrical works

Scope

The scope covers the following :

- Handle tools, accessories, and electrical devices.
- Handle and shift material and fixtures relevant to LV electrical works.

Elements and Performance Criteria

Handle tools, accessories and electrical devices

To be competent, the user/individual on the job must be able to:

- PC1.** use different hand tools like screw driver, pliers, wire strippers, voltage testers, insulation tapes, hacksaw and other tools relevant to LV(low voltage) electrical works
- PC2.** use power tools like drill machine, hand cutting machine, hand grinding machine required to carry out LV electrical installation work
- PC3.** use measuring tape, plumb bob, spirit level, line thread and other relevant hand tools for carrying out checks in alignment of works
- PC4.** handle common electrical measuring devices like multimeter, earth tester, tong tester and megger required to undertake LV electrical tests/ inspections
- PC5.** handle common construction equipments like steel cutting & bending machine, welding machine, vibrators, pumps, motors, tower cranes, batching plants etc
- PC6.** identify Lock Out Tag Out (LOTO) -shutdown requirements at construction sites

Handle and shift material and fixtures relevant to LV electrical works

To be competent, the user/individual on the job must be able to:

- PC7.** select electrical materials and fixtures like wires, cables, conduits, clamps, lights, miniature circuit breakers, switches, sockets, starters and related accessories
- PC8.** check for breakages, cracks, dampness, corrosions etc. in the electrical materials and fixtures prior to use
- PC9.** shift lights, cables, conduits, cable trays, brackets, DBs, ladders and other relevant materials to the appropriate work locations as per directions
- PC10.** inspect material storage location on-site for safe storage condition which includes avoiding vicinity of water, fire, direct sunlight, service lines, existing electrical lines and ongoing construction works etc.
- PC11.** store and stack electrical materials at work locations as per instructions/standard practices
- PC12.** provide protective cover, erect barricades, signages around the stacked materials adequately as per instructions
- PC13.** carry out housekeeping at work locations before and after completion of work



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Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** general and electrical safety rules applicable to different activities at construction works
- KU2.** safety rules and regulations for handling and storing required tools, equipment, and materials
- KU3.** service request procedures for tools, materials and equipment as per organizational norms
- KU4.** importance of personal protection including the use of related safety gears & equipment in accordance with organizational norms
- KU5.** area of use of common electrical hand and power tools like screw drivers, wire cutters, wire strippers, pliers, hammers, hacksaws, chisels, spanners, wrenches etc.
- KU6.** use of measuring devices like ammeter, earth tester, tong tester, megger, etc.
- KU7.** various types of cables, wires, conduits and their use in LV electrical connections
- KU8.** common types of fixtures like switches, brackets, sockets, plugs, tops and their use
- KU9.** types of circuit breakers, starters, relays and their area of application
- KU10.** physical and chemical properties of materials that are good conductors, semi-conductors, and bad conductors
- KU11.** concept of electrical current flow and factors which influence electrical flow through conductors
- KU12.** use of appropriate fire safety equipment like sand bucket, fire extinguisher, goggles, gloves etc. as per requirement
- KU13.** use of measuring equipment like measuring tape, plumb bob, level tube/pipe, marking tools, etc. and their respective area of use

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** write in one or more languages, preferably in the local language of the site
- GS2.** read work and safety-related instructions/signboards, etc. in one or more languages, preferably in the local language of the site
- GS3.** speak in one or more languages, preferably in one of the local language of the site
- GS4.** listen attentively to instructions communicated by supervisors
- GS5.** communicate orally and efficiently with team members
- GS6.** analyze the safety aspect of the workplace
- GS7.** plan work to achieve productivity as per the direction /close supervision of superiors
- GS8.** ensure work is done within time and as per desired quality based on instructions provided by superiors
- GS9.** identify any violation of safety norms during the work



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Handle tools, accessories and electrical devices</i>	10	40	-	-
PC1. use different hand tools like screw driver, pliers, wire strippers, voltage testers, insulation tapes, hacksaw and other tools relevant to LV(low voltage) electrical works	-	-	-	-
PC2. use power tools like drill machine, hand cutting machine, hand grinding machine required to carry out LV electrical installation work	-	-	-	-
PC3. use measuring tape, plumb bob, spirit level, line thread and other relevant hand tools for carrying out checks in alignment of works	-	-	-	-
PC4. handle common electrical measuring devices like multimeter, earth tester, tong tester and megger required to undertake LV electrical tests/ inspections	-	-	-	-
PC5. handle common construction equipments like steel cutting & bending machine, welding machine, vibrators, pumps, motors, tower cranes, batching plants etc	-	-	-	-
PC6. identify Lock Out Tag Out (LOTO) -shutdown requirements at construction sites	-	-	-	-
<i>Handle and shift material and fixtures relevant to LV electrical works</i>	10	40	-	-
PC7. select electrical materials and fixtures like wires, cables, conduits, clamps, lights, miniature circuit breakers, switches, sockets, starters and related accessories	-	-	-	-
PC8. check for breakages, cracks, dampness, corrosions etc. in the electrical materials and fixtures prior to use	-	-	-	-
PC9. shift lights, cables, conduits, cable trays, brackets, DBs, ladders and other relevant materials to the appropriate work locations as per directions	-	-	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC10. inspect material storage location on-site for safe storage condition which includes avoiding vicinity of water, fire, direct sunlight, service lines, existing electrical lines and ongoing construction works etc.	-	-	-	-
PC11. store and stack electrical materials at work locations as per instructions/standard practices	-	-	-	-
PC12. provide protective cover, erect barricades, signages around the stacked materials adequately as per instructions	-	-	-	-
PC13. carry out housekeeping at work locations before and after completion of work	-	-	-	-
NOS Total	20	80	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	CON/N0606
NOS Name	Handle different tools, measuring devices and materials relevant to LV(low voltage) electrical works
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Construction Electrical Works
NSQF Level	2
Credits	1.5
Version	3.0
Last Reviewed Date	NA
Next Review Date	19/07/2023
NSQC Clearance Date	19/01/2023



Qualification Pack

CON/N0607: Carry out wall chasing and external threading on MS(mild steel) conduit

Description

This unit describes the skills and the knowledge required to carry out wall chasing and external threading on MS conduit

Scope

The scope covers the following :

- Carry out preparatory work prior to concealed wiring work
- Chase wall as per marking and assist in conduit laying as per instructions
- Carry out external threading on MS conduit

Elements and Performance Criteria

Carry out preparatory work prior to concealed wiring work

To be competent, the user/individual on the job must be able to:

- PC1.** arrange and stack the required hand and power tools at the identified job location
- PC2.** arrange and stack electrical materials such as cables, wires, conduits and fixtures required for wall chasing and LV(Low Voltage) wiring work
- PC3.** carry out measurement and marking on wall surface using appropriate tools as per instruction
- PC4.** check the working condition of tools and materials and perform the required basic maintenance

Chase wall as per marking and assist in conduit laying as per instructions

To be competent, the user/individual on the job must be able to:

- PC5.** use appropriate PPE for carrying out chasing activity
- PC6.** carry out firm cutting on wall surface using wall chasing machine as per marking while maintaining uniform depth
- PC7.** finish the wall chasing work using hand tools as per standard practice maintaining the required dimension
- PC8.** measure, mark and cut cables and conduits as per instruction using appropriate tools
- PC9.** bend and join conduits as per requirement using appropriate tools
- PC10.** assist in placing conduits and cables/ wires and trough the same for permanent LV wiring works
- PC11.** clean the work locations after completion of work and dispose debris to appropriate location
- PC12.** assist senior in laying cables such as power and communication cables as per instructions

Carry out external threading on MS(mild steel) conduit

To be competent, the user/individual on the job must be able to:

- PC13.** carry out measurement & marking on the MS conduits
- PC14.** hold the conduit in pipe vice as per standard practice



Qualification Pack

- PC15.** cut the conduit at marking point and carry out the edge finishing using appropriate tools
- PC16.** fix die cutter in die stock per instructions and use lubricants as per applicability
- PC17.** carry out the threading activity following the applicable trade safety norms
- PC18.** maintain standard housekeeping practice at the workplace

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** general and electrical safety rules applicable to different activities at construction works
- KU2.** standard organizational practices followed for the electrical works
- KU3.** safety rules and regulations for handling and storing required relevant tools, equipment, and materials
- KU4.** service request procedures for tools, materials and equipment as per organizational norms
- KU5.** hand tools to be used in wall chasing work like chisel, hammer, nails etc.
- KU6.** power tools to be used in wall chasing works like wall chasing machine, drill machine, cutting saws etc.
- KU7.** hand tools/ instruments used for marking and measurement prior to carrying out chasing activity
- KU8.** hand tools such as hacksaws, files, hand cutting machine etc. used for cutting conduits
- KU9.** how to operate hand cutting machine and hand drill machine and the PPEs required while operating these machines
- KU10.** depth of chasing as per the wall thickness and diameter of the conduit
- KU11.** how to operate vice or threading tool
- KU12.** basics of electrical charge, current flow and their types
- KU13.** concept of conductors and semiconductors including their physical properties
- KU14.** parameters involved in electrical circuits such as voltage, electrical current flow, resistance, heat etc. their signs, units, and conversions
- KU15.** electrical elements that have thermal influences on circuits
- KU16.** safe procedure of termination and joining of cables
- KU17.** hazards and risks involved in LV electrical works and standard safety norms to be followed

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** write in one or more languages, preferably in the local language of the site
- GS2.** read work and safety-related instructions/signboards, etc. in one or more languages, preferably in the local language of the site
- GS3.** speak in one or more languages, preferably in one of the local language of the site
- GS4.** listen attentively to instructions communicated by supervisors
- GS5.** communicate orally and efficiently with team members
- GS6.** analyze the safety aspect of the workplace



Qualification Pack

- GS7.** plan work to achieve productivity as per the direction /close supervision of superiors
- GS8.** • ensure work is done within time and as per desired quality based on instructions provided by
• superiors
- GS9.** identify any violation of safety norms during the work



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Carry out preparatory work prior to concealed wiring work</i>	4	16	-	-
PC1. arrange and stack the required hand and power tools at the identified job location	-	-	-	-
PC2. arrange and stack electrical materials such as cables, wires, conduits and fixtures required for wall chasing and LV(Low Voltage) wiring work	-	-	-	-
PC3. carry out measurement and marking on wall surface using appropriate tools as per instruction	-	-	-	-
PC4. check the working condition of tools and materials and perform the required basic maintenance	-	-	-	-
<i>Chase wall as per marking and assist in conduit laying as per instructions</i>	8	32	-	-
PC5. use appropriate PPE for carrying out chasing activity	-	-	-	-
PC6. carry out firm cutting on wall surface using wall chasing machine as per marking while maintaining uniform depth	-	-	-	-
PC7. finish the wall chasing work using hand tools as per standard practice maintaining the required dimension	-	-	-	-
PC8. measure, mark and cut cables and conduits as per instruction using appropriate tools	-	-	-	-
PC9. bend and join conduits as per requirement using appropriate tools	-	-	-	-
PC10. assist in placing conduits and cables/ wires and trough the same for permanent LV wiring works	-	-	-	-
PC11. clean the work locations after completion of work and dispose debris to appropriate location	-	-	-	-
PC12. assist senior in laying cables such as power and communication cables as per instructions	-	-	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Carry out external threading on MS(mild steel) conduit</i>	8	32	-	-
PC13. carry out measurement & marking on the MS conduits	-	-	-	-
PC14. hold the conduit in pipe vice as per standard practice	-	-	-	-
PC15. cut the conduit at marking point and carry out the edge finishing using appropriate tools	-	-	-	-
PC16. fix die cutter in die stock per instructions and use lubricants as per applicability	-	-	-	-
PC17. carry out the threading activity following the applicable trade safety norms	-	-	-	-
PC18. maintain standard housekeeping practice at the workplace	-	-	-	-
NOS Total	20	80	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	CON/N0607
NOS Name	Carry out wall chasing and external threading on MS(mild steel) conduit
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Construction Electrical Works
NSQF Level	2
Credits	1.5
Version	3.0
Last Reviewed Date	NA
Next Review Date	19/07/2023
NSQC Clearance Date	19/01/2023



Qualification Pack

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

Description

This unit describes the skills and knowledge required to work effectively within a team to achieve the desired results

Scope

The scope covers the following :

- Interact and communicate in an effective manner
- Support co-workers to execute the project requirements
- Practice inclusion

Elements and Performance Criteria

Interact and communicate in an effective manner

To be competent, the user/individual on the job must be able to:

- PC1.** pass on work related information/ requirement clearly to the team members
- PC2.** inform co-workers and superiors about any kind of deviations from work
- PC3.** report any unresolved problem to the supervisor immediately
- PC4.** obtain instructions from superiors and respond on the same
- PC5.** communicate to team members/subordinates for appropriate work technique and method
- PC6.** seek clarification and advice as per the requirement

Support co-workers to execute the project requirements

To be competent, the user/individual on the job must be able to:

- PC7.** hand over the required material, tools, tackles, equipment and work fronts timely to interfacing teams
- PC8.** work together with co-workers in a synchronized manner

Practice inclusion

To be competent, the user/individual on the job must be able to:

- PC9.** maintain cultural inclusivity at work place
- PC10.** maintain disability friendly work practices
- PC11.** follow gender neutral practices at workplace
- PC12.** address discriminatory and offensive behaviour in a professional manner as per organizational policy

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** own roles and responsibilities



Qualification Pack

- KU2.** importance of effective communication
- KU3.** the consequence of poor teamwork on project outcomes, timelines, safety at the construction site, etc.
- KU4.** different modes of communication used at workplace
- KU5.** importance of creating healthy and cooperative work environment among the gangs of workers
- KU6.** different activities within the work area where interaction with other workers is required
- KU7.** applicable techniques of work, properties of materials used, tools and tackles used, safety standards that co-workers might need as per the requirement
- KU8.** importance of proper and effective communication and the expected adverse effects in case of failure relating to quality, timeliness, safety, risks at the construction project site
- KU9.** importance and need of supporting co-workers facing problems for the smooth functioning of work
- KU10.** the fundamental concept of gender equality
- KU11.** how to recognise and be sensitive to issues of disability, culture and gender
- KU12.** legislation, policies, and procedures relating to gender sensitivity and cultural diversity including their impact on the area of operation

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** write in at least one language, preferably in the local language of the site
- GS2.** read the communication regarding work completion, materials used, tools and tackles used, the resource required, etc,
- GS3.** speak in one or more languages, preferably in one of the local language of the site
- GS4.** listen and follow instructions / communication shared by superiors/ co-workers regarding team requirements or interfaces during work processes
- GS5.** communicate orally and effectively with co-workers considering their educational and social background
- GS6.** decide on what information is to be shared with co-workers within the team or to the interfacing gang of workers
- GS7.** plan work and organize the required resources in coordination with team members
- GS8.** complete all assigned task in coordination with team members
- GS9.** take initiative in resolving issues among co-workers or report the same to superiors
- GS10.** ensure best ways of coordination among team members
- GS11.** evaluate the complexity of task and determine if any guidance is required from superiors



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Interact and communicate in an effective manner</i>	18	42	-	-
PC1. pass on work related information/ requirement clearly to the team members	-	-	-	-
PC2. inform co-workers and superiors about any kind of deviations from work	-	-	-	-
PC3. report any unresolved problem to the supervisor immediately	-	-	-	-
PC4. obtain instructions from superiors and respond on the same	-	-	-	-
PC5. communicate to team members/subordinates for appropriate work technique and method	-	-	-	-
PC6. seek clarification and advice as per the requirement	-	-	-	-
<i>Support co-workers to execute the project requirements</i>	6	14	-	-
PC7. hand over the required material, tools, tackles, equipment and work fronts timely to interfacing teams	-	-	-	-
PC8. work together with co-workers in a synchronized manner	-	-	-	-
<i>Practice inclusion</i>	6	14	-	-
PC9. maintain cultural inclusivity at work place	-	-	-	-
PC10. maintain disability friendly work practices	-	-	-	-
PC11. follow gender neutral practices at workplace	-	-	-	-
PC12. address discriminatory and offensive behaviour in a professional manner as per organizational policy	-	-	-	-
NOS Total	30	70	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	CON/N8001
NOS Name	Work effectively in a team to deliver desired results at the workplace
Sector	Construction
Sub-Sector	Generic
Occupation	Generic 2
NSQF Level	2
Credits	1
Version	11.0
Last Reviewed Date	NA
Next Review Date	19/07/2023
NSQC Clearance Date	19/01/2023



Qualification Pack

CON/N8002: Plan and organize work to meet expected outcomes

Description

This unit describes the knowledge and the skills required for an individual to plan and organize own work in order to meet expected outcome

Scope

The scope covers the following :

- Plan and prepare for work
- Organise required resources as per work plan
- Complete work as per the plan

Elements and Performance Criteria

Plan and prepare for work

To be competent, the user/individual on the job must be able to:

- PC1.** identify the targets and timelines set by superiors
- PC2.** determine the work requirements corresponding to task(drawings/schedules/instructions/methodology), safety, tools and equipment prior to commencement of task
- PC3.** plan the work by analyzing the required outcomes, work procedures, allotted time, resource availability and known priorities
- PC4.** prepare the work areas in coordination with team members
- PC5.** plan for waste collection and disposal prior to and after completion of work

Organise required resources as per work plan

To be competent, the user/individual on the job must be able to:

- PC6.** arrange the required manpower prior to commencement of work
- PC7.** organize the required materials, tools and tackles required for the task

Complete work as per the plan

To be competent, the user/individual on the job must be able to:

- PC8.** engage allocated manpower in an appropriate manner
- PC9.** employ correct tools, tackles and equipment for the desired work
- PC10.** provide guidance to the subordinates to obtain desired outcome
- PC11.** use resources in an optimum manner to avoid any unnecessary wastage
- PC12.** use tools, tackles and equipment carefully to avoid damage
- PC13.** ensure the work processes adopted are in line with the specified standards and instructions
- PC14.** complete the work with the allocated resources within specified time
- PC15.** clean and organise the workplace after completion of task

Knowledge and Understanding (KU)



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The individual on the job needs to know and understand:

- KU1.** importance of proper housekeeping including safe waste disposal
- KU2.** policies, procedures and work targets set by superiors
- KU3.** how to identify work activities that need to be planned and organized
- KU4.** how to determine the task requirements
- KU5.** how to determine the quality requirements related to the task
- KU6.** how to undertake all aspect of planning and organizing the task, including interpretation of task, reading drawing/schedules, arranging resources, reporting problems etc.
- KU7.** how to implement the planned activities
- KU8.** how to use available resources in a judicious and appropriate manner to minimize wastages or damage

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** write in one or more language, preferably the local language at the site
- GS2.** read communication from co-workers, superiors and notices from other departments as per requirement of the level
- GS3.** speak in one or more language, preferably one of the local language at the site
- GS4.** follow communication shared by co-workers regarding standard work processes, resources available, timelines, etc.
- GS5.** communicate effectively with co-workers and subordinates
- GS6.** decide on what sequence is to be adopted for execution of work
- GS7.** plan and organize the materials, tools, tackles and equipment required to execute the work
- GS8.** complete all assigned task with proper planning and organizing
- GS9.** analyze areas of work which could result in a delay of work, wastage of material or damage to tools and tackles
- GS10.** evaluate potential solutions to minimize avoidable delays and wastages at the construction site



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Plan and prepare for work</i>	12	48	-	-
PC1. identify the targets and timelines set by superiors	-	-	-	-
PC2. determine the work requirements corresponding to task(drawings/schedules/instructions/methodology), safety, tools and equipment prior to commencement of task	-	-	-	-
PC3. plan the work by analyzing the required outcomes, work procedures, allotted time, resource availability and known priorities	-	-	-	-
PC4. prepare the work areas in coordination with team members	-	-	-	-
PC5. plan for waste collection and disposal prior to and after completion of work	-	-	-	-
<i>Organise required resources as per work plan</i>	4	16	-	-
PC6. arrange the required manpower prior to commencement of work	-	-	-	-
PC7. organize the required materials, tools and tackles required for the task	-	-	-	-
<i>Complete work as per the plan</i>	4	16	-	-
PC8. engage allocated manpower in an appropriate manner	-	-	-	-
PC9. employ correct tools, tackles and equipment for the desired work	-	-	-	-
PC10. provide guidance to the subordinates to obtain desired outcome	-	-	-	-
PC11. use resources in an optimum manner to avoid any unnecessary wastage	-	-	-	-
PC12. use tools, tackles and equipment carefully to avoid damage	-	-	-	-
PC13. ensure the work processes adopted are in line with the specified standards and instructions	-	-	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC14. complete the work with the allocated resources within specified time	-	-	-	-
PC15. clean and organise the workplace after completion of task	-	-	-	-
NOS Total	20	80	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	CON/N8002
NOS Name	Plan and organize work to meet expected outcomes
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Generic 2
NSQF Level	2
Credits	1
Version	8.0
Last Reviewed Date	NA
Next Review Date	19/07/2023
NSQC Clearance Date	19/01/2023



Qualification Pack

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

Description

This NOS covers the skill and knowledge required for an individual to work according to personal health, safety and environmental protocol at construction site

Scope

The scope covers the following :

- Follow safety norms as defined by organization
- Adopt healthy & safe work practices
- Implement good housekeeping and environment protection process and activities

Elements and Performance Criteria

Follow safety norms as defined by organization

To be competent, the user/individual on the job must be able to:

- PC1.** identify and report any hazards, risks or breaches in site safety to the appropriate authority
- PC2.** follow emergency and evacuation procedures in case of accidents, fires, natural calamities
- PC3.** follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable
- PC4.** participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site
- PC5.** select and operate different types of fire extinguishers corresponding to types of fires as per EHS guideline
- PC6.** identify near miss , unsafe condition and unsafe act

Adopt healthy & safe work practices

To be competent, the user/individual on the job must be able to:

- PC7.** use appropriate Personal Protective Equipment (PPE) as per work requirements including: Head Protection (Helmets), Ear protection, Fall Protection, Foot Protection, Face and Eye Protection, Hand and Body Protection, Respiratory Protection (if required)
- PC8.** handle all required tools, tackles , materials & equipment safely
- PC9.** follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines
- PC10.** install and apply properly all safety equipment as instructed
- PC11.** follow safety protocol and practices as laid down by site EHS department
- PC12.** undertake and pass height pass test as per EHS guideline

Implement good housekeeping and environment protection process and activities

To be competent, the user/individual on the job must be able to:

- PC13.** collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes
- PC14.** apply ergonomic principles wherever required



Qualification Pack

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** reporting procedures in cases of breaches or hazards for site safety, accidents, and emergency situations as per guidelines
- KU2.** types of safety hazards at construction sites
- KU3.** basic ergonomic principles as per applicability
- KU4.** the procedure for responding to accidents and other emergencies at site
- KU5.** use of appropriate personal protective equipment to be used based on various working conditions
- KU6.** importance of handling tools, equipment and materials as per applicable
- KU7.** health and environmental effect of construction materials as per applicability
- KU8.** various environmental protection methods as per applicability
- KU9.** storage of waste including the following at appropriate location: non-combustible scrap material and debris, combustible scrap material and debris, general construction waste and trash (non-toxic, non-hazardous), any other hazardous wastes, any other flammable wastes
- KU10.** how to use hazardous material, in a safe and appropriate manner as per applicability
- KU11.** types of fire
- KU12.** Procedure of operating different types of fire extinguishers
- KU13.** safety relevant to tools, tackles, & requirement as per applicability
- KU14.** housekeeping activities relevant to task

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** write in one or more languages, preferably in the local language of the site
- GS2.** fill safety formats for near miss, unsafe conditions and safety suggestions
- GS3.** read in one or more language, preferably in the local language of the site
- GS4.** read sign boards, notice boards relevant to safety
- GS5.** speak in one or more language, preferably in one of the local language of the site
- GS6.** listen instructions / communication shared by site EHS and superiors regarding site safety, and conducting tool box talk
- GS7.** communicate reporting of site conditions, hazards, accidents, etc.
- GS8.** maintain safe conditions for others
- GS9.** keep the workplace clean and tidy
- GS10.** identify safety risks that affect the health, safety and environment for self and others working in the vicinity, tackle it if within limit or report to appropriate authority
- GS11.** assess and analyze areas which may affect health, safety and environment protocol on the site
- GS12.** ensure personal safety behavior
- GS13.** respond to emergency



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Follow safety norms as defined by organization</i>	6	24	-	-
PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority	-	-	-	-
PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities	-	-	-	-
PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable	-	-	-	-
PC4. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site	-	-	-	-
PC5. select and operate different types of fire extinguishers corresponding to types of fires as per EHS guideline	-	-	-	-
PC6. identify near miss , unsafe condition and unsafe act	-	-	-	-
<i>Adopt healthy & safe work practices</i>	10	40	-	-
PC7. use appropriate Personal Protective Equipment (PPE) as per work requirements including: Head Protection (Helmets), Ear protection, Fall Protection, Foot Protection, Face and Eye Protection, Hand and Body Protection, Respiratory Protection (if required)	-	-	-	-
PC8. handle all required tools, tackles , materials & equipment safely	-	-	-	-
PC9. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines	-	-	-	-
PC10. install and apply properly all safety equipment as instructed	-	-	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. follow safety protocol and practices as laid down by site EHS department	-	-	-	-
PC12. undertake and pass height pass test as per EHS guideline	-	-	-	-
<i>Implement good housekeeping and environment protection process and activities</i>	4	16	-	-
PC13. collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes	-	-	-	-
PC14. apply ergonomic principles wherever required	-	-	-	-
NOS Total	20	80	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	CON/N9001
NOS Name	Work according to personal health, safety and environment protocol at construction site
Sector	Construction
Sub-Sector	Generic
Occupation	Generic
NSQF Level	2
Credits	1
Version	9.0
Last Reviewed Date	NA
Next Review Date	19/07/2023
NSQC Clearance Date	19/01/2023



Qualification Pack

DGT/VSQ/N0101: Employability Skills (30 Hours)

Description

This unit is about employability skills, Constitutional values, becoming a professional in the 21st Century, digital, financial, and legal literacy, diversity and Inclusion, English and communication skills, customer service, entrepreneurship, and apprenticeship, getting ready for jobs and career development.

Scope

The scope covers the following :

- 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

Elements and Performance Criteria

Introduction to Employability Skills

To be competent, the user/individual on the job must be able to:

PC1. understand the significance of employability skills in meeting the job requirements

Constitutional values - Citizenship

To be competent, the user/individual on the job must be able to:

PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices

Becoming a Professional in the 21st Century

To be competent, the user/individual on the job must be able to:

PC3. explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.

Basic English Skills

To be competent, the user/individual on the job must be able to:

PC4. speak with others using some basic English phrases or sentences

Communication Skills

To be competent, the user/individual on the job must be able to:

PC5. follow good manners while communicating with others

PC6. work with others in a team



Qualification Pack

Diversity & Inclusion

To be competent, the user/individual on the job must be able to:

PC7. communicate and behave appropriately with all genders and PwD

PC8. report any issues related to sexual harassment

Financial and Legal Literacy

To be competent, the user/individual on the job must be able to:

PC9. use various financial products and services safely and securely

PC10. calculate income, expenses, savings etc.

PC11. approach the concerned authorities for any exploitation as per legal rights and laws

Essential Digital Skills

To be competent, the user/individual on the job must be able to:

PC12. operate digital devices and use its features and applications securely and safely

PC13. use internet and social media platforms securely and safely

Entrepreneurship

To be competent, the user/individual on the job must be able to:

PC14. identify and assess opportunities for potential business

PC15. identify sources for arranging money and associated financial and legal challenges

Customer Service

To be competent, the user/individual on the job must be able to:

PC16. identify different types of customers

PC17. identify customer needs and address them appropriately

PC18. follow appropriate hygiene and grooming standards

Getting ready for apprenticeship & Jobs

To be competent, the user/individual on the job must be able to:

PC19. create a basic biodata

PC20. search for suitable jobs and apply

PC21. identify and register apprenticeship opportunities as per requirement

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. need for employability skills

KU2. various constitutional and personal values

KU3. different environmentally sustainable practices and their importance

KU4. Twenty first (21st) century skills and their importance

KU5. how to use basic spoken English language

KU6. Do and dont of effective communication

KU7. inclusivity and its importance

KU8. different types of disabilities and appropriate communication and behaviour towards PwD

KU9. different types of financial products and services



Qualification Pack

- KU10.** how to compute income and expenses
- KU11.** importance of maintaining safety and security in financial transactions
- KU12.** different legal rights and laws
- KU13.** how to operate digital devices and applications safely and securely
- KU14.** ways to identify business opportunities
- KU15.** types of customers and their needs
- KU16.** how to apply for a job and prepare for an interview
- KU17.** apprenticeship scheme and the process of registering on apprenticeship portal

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** communicate effectively using appropriate language
- GS2.** behave politely and appropriately with all
- GS3.** perform basic calculations
- GS4.** solve problems effectively
- GS5.** be careful and attentive at work
- GS6.** use time effectively
- GS7.** maintain hygiene and sanitisation to avoid infection



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Introduction to Employability Skills</i>	1	1	-	-
PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-
<i>Constitutional values - Citizenship</i>	1	1	-	-
PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	1	3	-	-
PC3. explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.	-	-	-	-
<i>Basic English Skills</i>	2	3	-	-
PC4. speak with others using some basic English phrases or sentences	-	-	-	-
<i>Communication Skills</i>	1	1	-	-
PC5. follow good manners while communicating with others	-	-	-	-
PC6. work with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	1	1	-	-
PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC8. report any issues related to sexual harassment	-	-	-	-
<i>Financial and Legal Literacy</i>	3	4	-	-
PC9. use various financial products and services safely and securely	-	-	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC10. calculate income, expenses, savings etc.	-	-	-	-
PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
<i>Essential Digital Skills</i>	4	6	-	-
PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
PC13. use internet and social media platforms securely and safely	-	-	-	-
<i>Entrepreneurship</i>	3	5	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	2	2	-	-
PC16. identify different types of customers	-	-	-	-
PC17. identify customer needs and address them appropriately	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	1	3	-	-
PC19. create a basic biodata	-	-	-	-
PC20. search for suitable jobs and apply	-	-	-	-
PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
NOS Total	20	30	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	DGT/VSQ/N0101
NOS Name	Employability Skills (30 Hours)
Sector	Cross Sectoral
Sub-Sector	Professional Skills
Occupation	Employability
NSQF Level	2
Credits	1
Version	1.0
Last Reviewed Date	NA
Next Review Date	27/01/2025
NSQC Clearance Date	27/01/2022

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC)/ Elements will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC/ Elements.
2. The assessment for the knowledge part will be based on knowledge bank of questions created by Assessment Bodies subject to approval by SSC
3. Individual assessment agencies will create unique question papers for knowledge/theory part for assessment of candidates as per assessment criteria given below
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on assessment criteria.
5. The passing percentage for each QP will be 50%. To pass the Qualification Pack, every trainee should score a minimum of 50% individually in each NOS.
6. The Assessor shall check the final outcome of the practices while evaluating the steps performed to achieve the final outcome.



Qualification Pack

- The trainee shall be provided with a chance to repeat the test to correct his procedures in case of improper performance, with a deduction of marks for each iteration.
- After the certain number of iteration as decided by SSC the trainee is marked as fail, scoring zero marks for the procedure for the practical activity.
- 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 within the specified time frame set by SSC.
- Minimum duration of Assessment of each QP shall be of 4hrs/trainee.

Minimum Aggregate Passing % at QP Level : 50

(Please note: Every Trainee should score a minimum aggregate passing percentage as specified above, to successfully clear the Qualification Pack assessment.)

Assessment Weightage

Compulsory NOS

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
CON/N0606.Handle different tools, measuring devices and materials relevant to LV(low voltage) electrical works	20	80	-	-	100	30
CON/N0607.Carry out wall chasing and external threading on MS(mild steel) conduit	20	80	-	-	100	35
CON/N8001.Work effectively in a team to deliver desired results at the workplace	30	70	-	-	100	10
CON/N8002.Plan and organize work to meet expected outcomes	20	80	-	-	100	5
CON/N9001.Work according to personal health, safety and environment protocol at construction site	20	80	-	-	100	15
DGT/VSQ/N0101.Employability Skills (30 Hours)	20	30	-	-	50	5



Qualification Pack

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
Total	130	420	-	-	550	100



Qualification Pack

Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training



Qualification Pack

Glossary

Sector	Sector is a 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 organisation.
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 (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a 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 quality of performance required.



Qualification Pack

Knowledge and Understanding (KU)	<p>Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.</p>
Organisational Context	<p>Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.</p>
Technical Knowledge	<p>Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.</p>
Core Skills/ Generic Skills (GS)	<p>Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment 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.</p>
Electives	<p>Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.</p>
Options	<p>Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.</p>