



Model Curriculum

QP Name: Industrial Electrician (Oil & Gas)

QP Code: HYC/Q6101

QP Version: 3.0

NSQF Level: 4

Model Curriculum Version: 3.0

Hydrocarbon Sector Skill Council
OIDB Bhawan, Block G+3, 2nd Floor, Plot No.2, Vikas Marg,
Sector – 73, Noida, Uttar Pradesh -201301

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Training Parameters

Sector	Hydrocarbon
Sub-Sector	Downstream, Midstream
Occupation	Refineries
Country	India
NSQF Level	4
Aligned to NCO/ISCO/ISIC Code	
Minimum Educational Qualification and Experience	10th Grade pass with 2-years relevant experience OR 12th Grade Pass OR 10th Grade Pass plus 2-year of National Trade Certificate (NTC) in relevant field OR Completed 2nd year of the 3-year Diploma (after 10th) in relevant field and pursuing regular Diploma
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 years

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.

- **Undertake job requirement and related process:** Perform wiring work in the installation, repair and maintenance of electrical systems, understand basic drawing, mathematical skill in respect to electrician, different types of material used, knowledge of basic electronics
- **Perform industrial electrical wiring:** Installation of industrial electrical wiring, maintain service and repairs wiring and other electrical device and systems in the industry
- **Work effectively in a team:** Improve work effectiveness with colleagues, superiors, members of own work group, people in other work groups within or outside the organization
- **Follow health, safety and security procedures:** Undertake jobs while following health, safety and security procedures

Compulsory Modules

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

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration	Total Duration
Bridge Module	06:00	Nil	00:00	06:00
Module 1: Introduction to Hydrocarbon sector and the job role of Industrial Electrician (Oil & Gas)	06:00	Nil	00:00	06:00
HYC/N6101: Job requirements and related processes. NOS Version No. – 2.0 NSQF Level – 4	60:00	90:00	30:00	180:00
Module 2: Industrial electrician job related process	60:00	90:00	30:00	180:00
HYC/N6102: Industrial Electrical wiring NOS Version No. – 2.0 NSQF Level – 4	60:00	120:00	30:00	210:00
Module 3: Electric wiring at oil & gas industries	60:00	120:00	30:00	210:00
HYC/N9302: Follow health, safety and security procedures NOS Version No. – 2.0 NSQF Level – 4	30:00	45:00	00:00	75:00
Module 4: Health, Safety and Security Procedures	30:00	45:00	00:00	75:00
HYC/N9301: Work effectively in a team NOS Version No. – 2.0 NSQF Level – 4	24:00	45:00	00:00	69:00
Module 5: Effective working in a team	24:00	45:00	00:00	69:00
DGT/VSQ/N0102 - Employability Skills NOS Version No. – 1.0	-	-	-	60:00
Total Duration	180:00	300:00	60:00	600:00

Module Details

Module 1: Introduction to Hydrocarbon sector and the job role of Industrial Electrician (Oil & Gas)

Bridge Module

Terminal Outcomes:

- Discuss the Hydrocarbon Sector
- Discuss the job of an Industrial Electrician (Oil & Gas)

Duration: 06:00	Duration: 00:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe the oil and natural gas sector and its subsectors. • Explain the importance of an Industrial Electrician at oil and gas sector. • Explain the roles and responsibilities of Industrial Electrician 	
Classroom Aids:	
<ul style="list-style-type: none"> • White / Black board and Projector • Digital Presentation • Computer/Laptop • Public Addressing System 	
Tools, Equipment and Other Requirements	
NA	

Module 2: Industrial electrician job related process

Mapped to HYC/ N6101 v 2.0

Terminal Outcomes:

- wiring work in the installation, repair and maintenance of electrical systems.
- Understanding the basic drawing
- Mathematical skills with respect to electrician
- Knowledge on different types of materials used
- Knowledge on basic workshop practice and tools used
- Knowledge on basic electronics

Duration: 60:00	Duration: 90:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the common problem which occurs within the work process • Describe the importance of keeping work area tidy • Explain the principles of electricity for safe working • Describe the trends and developments in the industry including new technology • Explain basics of engineering drawing • Explain the differences in properties of different materials including metals, alloys, ceramics, polymers and composites • Explain the basics of fundamentals of electronics • Describe the active & passive components and their use • Explain the different applications and uses of electronic devices like diodes, rectifier, logic gate wave shaping circuits, transistor, amplifier, switch, impedance matching, oscillator circuit, UJT, relaxation oscillator • Explain the basics of digital electronics 	<ul style="list-style-type: none"> • Demonstrate how to adopt diagnostic approach to solve problems • Demonstrate how to follow electrical safety procedures • Demonstrate how to adhere the procedure for health and safety and personal protective equipment used • Perform the process to identify and use the appropriate personal protective equipment including safety footwear, ear and eye protection • Demonstrate how to work efficiently and check progress and outcomes regularly • Prepare draft and illustrate engineering drawing as per standards • Prepare, draw, read, interpret and revise drawings • Use engineering drawing-equipment's such as mini drafter etc • Demonstrate how to do projections, dimensioning, tolerance and its importance • Demonstrate how to make wiring diagram of DOL starter and star delta starter • Demonstrate how to make dimensional drawing of DC machine parts • Show draw sketches as per BIS specifications • Demonstrate how to generate single line diagram of distribution substation

	<ul style="list-style-type: none"> • Demonstrate how to operate the computer to generate CAD for electrical drawing • Perform basic mathematical calculations • Select and apply basic calculation of area and volume • Use appropriate mathematical concepts and skills to solve problems in fractions, decimals, percentage and ratio • Demonstrate how to perform basics of algebra and understand simple algebraic equations and problem • Perform techniques of solving simple trigonometric problems • Demonstrate metals and non-metals, identify ferrous and non-ferrous metals • Demonstrate how to integrate steel properties and applications of the carbon steel and alloys • Perform the tasks required and plan ahead steps to be taken to achieve the outcome • Carry out marking on the materials as per the drawing • Demonstrate how to set up and adjust metalworking tools and do threading • Demonstrate how to measure and mark materials as per the drawing and check accuracy and quality of finished parts • Demonstrate how to apply knowledge and ability to use different hand tools and power tools in plumbing and appreciate the advantage of correct tools used
<p>Classroom Aids:</p>	
<ul style="list-style-type: none"> • White / Black board and Projector • Digital Presentation • Computer/Laptop • Public Addressing System 	
<p>Tools, Equipment and Other Requirements</p>	
<ul style="list-style-type: none"> • Digital multimeter • Phase sequence meter • Clamp meter • Earth tester • Techno meter • Vibration tester • Frequency meter • Thermos meter • Pressure meter 	

Module 3: Electric wiring at oil & gas industries

Mapped to HYC/N6102 v 2.0

Terminal Outcomes:

- Basics of Electricity
- Single Phase and Poly Phase System
- Knowledge of Indian Electrical Rules (Ie Rules)
- Usage of Different Types of Wiring
- Industrial Wiring
- Illumination Specification Application of Different Elements Of Circuits
- Transformer Care and Maintenances
- Motor and D.C Motor
- Generator
- Single Line Diagram of Electrical Wiring System
- Circuit Breaker/ Switch Gear Care and Maintenance
- Cable and Cable Joints
- Earthing System
- Power System and Measurement

Duration: 60:00	Duration: 120:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the principle of electricity • Describe voltage, resistor and current, power • Explain the importance of basic laws such as Ohms law, principles of DC circuits etc • Describe basics of cell/ battery and the correct operation of the electrical installation in accordance with specifications • describe the terminologies like amplitude, phase angle, cycle, frequency and power factor • Explain the conversion of star to delta and conversion of delta to star • Describe Indian electrical standard rules. • Awareness of rules and regulation of electrical inspectorate and other statutory authorities • Explain the industrial regulations and standards applicable to different types of installations • Explain the range of electrical switchboards used for commercial, domestic, residential, agricultural and industrial uses • Explain the types of electric lighting and heating systems for commercial, domestic residential and industrial use 	<ul style="list-style-type: none"> • Demonstrate how to install various electrical power supplies such as single phase, three-phase, direct current and low voltage • Demonstrate how to read, understand and interpret drawings and documents including 1\emptyset system through RLC circuits with phase diagram of 3\emptyset system, generation of 3\emptyset system and 3 \emptyset type 1. star and 2. Delta • Demonstrate how to follow electrical safety procedures • Demonstrate how to identify and use the appropriate personal protective equipment including safety footwear, ear and eye protection • Perform the process to select, use, clean, maintain and store all tools and equipment safely • Demonstrate how to read, interpret and revise drawings and documents including layout and circuit drawings and follow written instructions • Demonstrate how to plan installation work using drawings and documents provided • Demonstrate the ducting and wiring systems for commercial, domestic, residential, godown, agricultural and industrial use including Oil & Gas sector

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| <ul style="list-style-type: none"> • Describe the trends and developments in the industry including new technology, standards and working methods • Explain different types of standards, drawings, installation descriptions and manuals • Explain the classification of AC motor (synchronous and asynchronous) • Explain the importance of special electrical motor in relation to the industry requirement • Describe the symbol of electrical parts • Define proper layout structure of substation and work instruction • Explain the flame proof cables specification, application care & maintenance | <ul style="list-style-type: none"> • Demonstrate how to use different control devices and socket outlets used for commercial, domestic, residential, agricultural and industrial uses including hazardous areas • Demonstrate how to install structured cabling systems including: computer network cabling, fire/burglar alarm, control and monitoring, access control closed circuit television. • Demonstrate how to identify the range of materials and installation techniques to be used in different environments • Plan installation work using drawings and documents provided • Select and install equipment as per drawings and documents provided • Demonstrate the parts of transformer, working principle and construction, types of transformer and its use (single phase & poly phase), spatial transformer (auto, CT, PT) construction and its application, maintenance of transformer oil testing and filtration, inspection of silica gel, breather, conservator, temperature, maintenance of HT and LT transformers yards • Demonstrate how to connect AC Motor as per instructions provided to include: structured cabling systems as per manufacturer's instructions and current industrial standards and regulations • Demonstrate the working AC Motor and its construction • Demonstrate the type of single phase motor and poly phase (3 phase) and their working • Perform the process to set-up equipment to speed control and torque control of AC motor • Demonstrate how to assemble and replacement of bearing with proper equipment's, referring to the standard catalogue • Perform troubleshooting and take general care/ maintenance of AC motor • Demonstrate different types of DC motors and its details • Demonstrate motor construction and its working • Demonstrate how to install the required electrical supply systems including transformers, generators, circuit breakers, isolators, bus bars, measuring |
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equipment for voltage, current, power, energy, frequency, RPM, wiring, fuses, earthing, switchboard, control panels, relays etc. as per the required specifications

- Conduct test process to ensure performance of installed electrical equipment as per the defined specifications
- Demonstrate the different elements of generator such as construction and working of generator, characteristics of generator, types of DC generator, EMF equation, application of DC generator, maintenance with ABC type, alternator construction & characteristics, types, application & maintenance of alternator, diesel generator care & maintenance, basics of engine, fuel system, air system, lubrication system, cooling system, DG control panel and general maintenance
- Demonstrate how to connect and keep track of electrical diagram
- Demonstrate how to install electrical switchboards onto a surface in a secure way and assemble switchboard apparatus in a switchboard as per layout drawings
- Demonstrate how to test installations before energizing and check for proper connection
- Demonstrate how to test installations when energized by checking complete function on all equipment
- Perform the correct operation of new installation as per instructions
- Demonstrate the working of following elements: circuit breaker, type of switch, SPST, SPDT, DPST, DPDT, toggle switch, pushbutton switch, level actuator, limit switch, selector switch, flame proof switch, types of circuit breaker, MCB, MCCB, ELCB, ACB, SF6, VCB, flame proof switch gear, specification, application, care & maintenance
- Demonstrate how to identify cable types and sizes: types of cables, specification, current rating, application etc
- Demonstrate how to identify sub-circuits and determine cable for connection of security control panel
- Demonstrate how to install and terminate cable to connect security control panel to existing sub-circuit

	<ul style="list-style-type: none"> • Demonstrate how to inspect, test, rectify abnormal conditions, and commission connection of circuit • Demonstrate how to troubleshoot electrical installations and identify faults in cable • Perform earthing attachment positions on conductors, plant and equipment • Check earthing in terms of portable earths, voltage rating, fault level and conductor rating • Demonstrate how to ensure earthing compliance requirements are as per terms of acceptable surface condition and cleanliness, clamps, leads, fittings, sticks and poles
<p>Classroom Aids:</p>	
<ul style="list-style-type: none"> • White / Black board and Projector • Digital Presentation • Computer/Laptop • Public Addressing System 	
<p>Tools, Equipment and Other Requirements</p>	
<p>Drives Training Systems (8036-3A), Electrical Demo Panel, Frequency Meter, Fundamental Training System (3460-05), Invertor Duty Motor-0.75KW 1HP 1500RPM, Load Bank 5 KW, Motor Generator AC to DC, Motor Generator DC to AC, One Phase 1 KVA Transformer, One Phase Variable Auto Transformer, Potential Transformer, Power Factor Meter, Rheostat 0-100 Ohm 2Amp, Rheostat 0-100 Ohm 5 Amp, Scientific Dual Power Supply, PLC (S7-300), SKF Bearing Toolkit TMFT 36, SKF Shaft Alignment Tool TKSA-31, SKF Standard Jaw Puller TMMP, Starter for A.C. Motor, Three Phase 3 KVA Transformer, Three Phase Variable Transformer, Three Point Starter for DC Motor, Thyristor Controller AC Motor Drive 1HP, Transformer Oil Test machine, Universal Motor with Starter, DC Regulated Power Supply, Battery Charger, Bench Vice, VVFD with induction motor, AC Volt Meter, AC Ammeter, DC Ammeter, Analog Wattmeter, single phase energy meter, three phase energy Meter, "Hand driven Megger, Make: WACO", "Motorised Megger, Make: WACO", "Hygrometer, "Digital Non-contact type Tachometer, System", "Phase Sequence Meter, Make : AE" "Tong Tester/Clamp Meter, Make : MECO -72T", 1100 V Cable end joint & straight joint kit, Motor winding practice set</p>	

Module 4: Health, Safety and Security Procedures

Mapped to HYC/N6104 v 2.0

Terminal Outcomes:

- Knowledge and practice Health and safety
- Fire safety
- Safety systems
- Emergencies, rescue and first-aid
- procedures

Duration: 30:00	Duration: 60:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain importance of using PPE like face mask, hand gloves, goggle, protective clothing/equipment, etc. at workplace. • Explain how to monitor the health and safety of self and other team members. • Explain the hazard and risk associated with mishandling various tools and equipment. • Discuss safe work practices as per the company's guidelines and procedures. • Explain the good housekeeping practices to prevent any hazard. • Explain how to record and report all incidents, damages or injury. • Explain importance of personal and workplace hygiene. 	<ul style="list-style-type: none"> • Demonstrate how to appropriately wear and discard PPE kit. • Demonstrate how to respond promptly and appropriately to an accident. • Demonstrate how to administer first aid. • Demonstrate various rescue techniques. • Demonstrate how to use fire extinguishers. • Show the correct way to lift heavy objects.
Classroom Aids:	
<ul style="list-style-type: none"> • White / Black board and Projector • Digital Presentation • Computer/Laptop • Public Addressing System 	
Tools, Equipment and Other Requirements	
<ul style="list-style-type: none"> • Safety regulation manual 	

Module 5: Effective working in a team

Mapped to HYC/N6103 v 2.0

Terminal Outcomes:

- Describe how to interact with others effectively and appropriately.
- Demonstrate how to deal with colleagues at workplace

Duration: 24:00	Duration: 45:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe methods to communicate clearly with the supervisor and reporting authorities. • Explain how to share information in line with organisational requirements. • Explain the organisation’s policies and procedures. • Explain how to identify causes of interpersonal conflict at workplace. • Describe ways/methods to resolve interpersonal conflict. • Explain the importance of gender equality. • Explain the importance of supporting and respecting colleagues and other members of the organisation without any bias based on gender, culture, disability etc. • Explain the importance of gender neutral behaviour while interacting with others. 	<ul style="list-style-type: none"> • Demonstrate ways to handle interpersonal conflict at the workplace. • Demonstrate the ways of developing suitable rapport with other team members. • Demonstrate how to respond during emergencies. • Demonstrate how to communicate in a manner that is respectful of gender, culture and disability.
Classroom Aids:	
<ul style="list-style-type: none"> • White / Black board and Projector • Digital Presentation • Computer/Laptop • Public Addressing System 	
Tools, Equipment and Other Requirements	
<ul style="list-style-type: none"> • Dummy team 	

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
ITI/ DIPLOMA/DEGREE	-	2	-	1	-	3 years for ITI, 2 year - Diploma, 1.5 year-for Degree

Trainer Certification	
Domain Certification	Platform Certification
Certified for Job Role: "Industrial Electrician (Oil & Gas)" mapped to QP: "HYC/Q6101". Minimum accepted score is 80%	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "MEP/Q2601". Minimum accepted score is 80%.

Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
ITI/ DIPLOMA/DEGREE	-	2	-	1	-	3 years for ITI, 2 year - Diploma, 1.5 year-for Degree

Assessor Certification	
Domain Certification	Platform Certification
Certified for Job Role: “Industrial Electrician (Oil & Gas)” mapped to QP: “HYC/Q6101”. Minimum accepted score is 80%	Recommended that the Trainer is certified for the Job Role: “Assessor”, mapped to the Qualification Pack: “MEP/Q2701”. Minimum accepted score is 80%.

Assessment Strategy

The assessment of candidates/trainees will be on the basis on assessment outcome/assessment criteria of the Qualification. In the assessment criteria for each NOS marks have been defined for theoretical and practical skills, on which the candidate will be assessed. The emphasis is on 'learning-by-doing' and performance criteria is based on the practical demonstration of skills and knowledge.

Theory/Knowledge test- This section will test the trainee on his/her knowledge on the subject/trade.

The test will be carried out online/offline with a set of random Question paper. that include multiple choice questions in multilingual, True/False Statement, audio-video question etc.

The Question Bank will be developed by Subject Matter Experts (SME) of the hydrocarbon sector and these questions again be vetted by the Industry Experts, each performance criteria have its marks for theory based on the level of question i.e., easy, medium and difficult.

Practical/Demonstration Test- This stage involves the face-to-face interaction between Assessor and each trainee. The practical knowledge will be tested through trade test which demonstrates the skill required for the job, by which assessor would be able to evaluate the trainee for his/her practical knowledge on respective Qualification.

To ensure the maximum possible consistency in the assessment by different assessors at different locations, orientation of the assessors is also required about the stages involved in the assessment and the assessor role in the assessment process. The assessor must have knowledge of the following concepts before assessment:

- Qualification Pack Structure
- Guidance for the assessor to conduct theory and practical assessments
- Guidance for trainees to be given by assessor before the start of the assessments.
- Guidance on assessments process, practical brief with steps of operations practical observation checklist
- Practical/Demonstration Test guidance for uniformity and consistency.
- Guidance on assessment evidence collection (signed attendance copy, verification of the authenticity of the candidate by checking the photo ID card, Photographs-while assessment undergoing etc.)

The empanelled assessment agencies will be instructed to hire assessors with integrity, reliability and fairness. Each assessor shall sign a document with its assessment agency by which they commit themselves to comply with the rules of confidentiality and conflict of interest, independence from commercial and other interests that would compromise impartiality of the assessments. The assessment agencies are instructed to ideally have assessor with sufficient amount of relevant industry experience related to Qualification. The assessors will also have scrutinized and have to undergo orientation of assessment framework, competency-based assessments etc.

Recognition of Prior Learning (RPL)

Under the Recognition of Prior Learning (RPL), the candidates enrolled and the assessment will be carried out as per the assessment criteria and assessment outcome of the full Qualification and the process of assessment will be carry out by the body/bodies empanelled by Hydrocarbon Sector Skill Council

In RPL, the candidate already has the skills and knowledge while working on the job from long, the learners only requires to undergo a brief orientation training and the subsequent assessment process

and certification is awarded to those candidates who successfully clears the assessment. The tentative process of RPL would include the following stages:

- 1 Cluster Mapping and Mobilization of the candidates
- 2 Counselling & Pre-Screening
- 4 Candidate registration, batch creation and enrolment
- 5 Conducting an orientation program for candidates before assessment
- 7 Assessment by HSSC
- 8 Evaluation of Assessment Result
- 9 Issuance of the Certificate to successful candidates

Assessment Strategy:

- For each Qualification Pack assessment criteria has been developed, which describe the weightage for each NOS/Performance criteria (PC) and assigned marks based on each NOS separately for theoretical and practical skills
- The question bank will be developed by the subject matter experts to assess the theoretical and practical knowledge.
- The accredited assessment agency will carry out the assessment process on the date proposed after completion of the training. The assessment will be carried out on the basis of the two parameters i.e. Theoretical test and Practical test.
- The result of the assessment will be shared by assessment body to the HSSC for review and compliance, after that result will be processed and certificates will be generated
- Assessments shall be conducted in the regional languages in case of any specific requirement from the concerned Training Provider.
- For ensuring the impartial assessment it will be ensured that the Assessment Bodies (AB) are not involved in any type of training delivery with respect to this project.

Assessment Guidelines

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 the proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on the knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for the theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training center based on these criteria.
6. To pass the Qualification Pack assessment, every trainee should score a minimum of 70% of % aggregate marks to successfully clear the assessment.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Recommended Pass % aggregate for QP: 70%

References

Glossary

Term	Description
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 organization.
Occupational Standards(OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (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.
Knowledge and Understanding(KU)	Knowledge and Understanding (KU) are statements that together specify the technical, generic, professional and organizational specific knowledge that an individual need in order to perform to the required standard.
Organizational Context	Organizational context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/Generic Skills(GS)	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. In the context of the OS, these include communication-related skills that are applicable to most job roles.

Electives	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.
Options	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.

Acronyms and Abbreviations

Term	Description
NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
OS	Occupational Standard(s)
QP	Qualifications Pack
KU	Knowledge and Understanding
GS	Generic Skills
FAQ	Frequently Asked Questions
BP	Business Partner
KYC	Know Your Consumer
FAB	Feature Advantage Benefit