



Qualification Pack



Helper Fabrication

QP Code: CON/Q1201

Version: 2.0

NSQF Level: 2

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CON/Q1201: Helper Fabrication

Brief Job Description

Helper Fabrication workers are engaged in supporting works related to various process of fabrication like cutting, welding, fitting, bolting and handling fabrication materials, tools and consumables under close supervision of respective trade seniors.

Personal Attributes

The individual should be physically fit and mentally alert and safety conscious to be able to work across various locations in extreme weather/site conditions. The person should preferably not suffer from any respiratory disorder, vision defects and skin allergies due to exposure to light and heat and able to perform efficiently within a team, handle the various fabrication tools and materials

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [CON/N1201: Identify, and handle materials, tools, tackles and consumables used for fabrication of structural steel elements](#)
2. [CON/N1202: Provide support and assistance to fabrication activities](#)
3. [CON/N9001: Work according to personal health, safety and environment protocol at construction site](#)

Qualification Pack (QP) Parameters

Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Fabrication
Country	India
NSQF Level	2
Aligned to NCO/ISCO/ISIC Code	NCO-2015/ 9313.9900
Minimum Educational Qualification & Experience	5th Class



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Minimum Level of Education for Training in School	5th Class
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	04/03/2020
Next Review Date	24/07/2023
Deactivation Date	24/07/2023
NSQC Approval Date	22/08/2019
Version	2.0
Reference code on NQR	2019/CON/CSDCI/3297
NQR Version	2



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CON/N1201: Identify, and handle materials, tools, tackles and consumables used for fabrication of structural steel elements

Description

This unit describes the skills and knowledge required by workman to identify and handle materials, tools, tackles and consumables used for fabrication of structural steel elements

Scope

The scope covers the following :

- Identify and differentiate materials, tools and consumables used in the fabrication process
- Handle tools, tackles, consumables and lightweight materials used in fabrication

Elements and Performance Criteria

Identify and differentiate materials, tools and consumables used in the fabrication process

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

- PC1.** identify and differentiate between various types of Kits process of welding works
- PC2.** identify the various shielding gas cylinders
- PC3.** identify and differentiate between gases based on their uses and applications related to gas cutting works
- PC4.** identify and differentiate between different types of filler rods used in different welding processes
- PC5.** identify and differentiate types of grinding wheels
- PC6.** identify and differentiate between different types of grinders such as fixed grinding machine, angle or portable grinders bend grinders etc
- PC7.** identify and differentiate between various tools and tackles employed in fitup operations

Handle tools, tackles, consumables and lightweight materials used in fabrication

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

- PC8.** handle and stack different tools that are required for welding operations
- PC9.** coil cables and pipes and shift them as per instructions
- PC10.** stack the wire/ cables as per manufactures guidelines as per standard safety norms and instruction
- PC11.** shift gas cylinders in upright position only, by employing trolleys or any other suitable mechanical means
- PC12.** stack full and empty cylinders separately as per instructions or standard practice
- PC13.** shift lightweight materials as per instruction applying the ergonomics of material handling
- PC14.** stack the light weight material at proper location as per instruction
- PC15.** carry out basic upkeep of various hand tools and tackles

Knowledge and Understanding (KU)



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The individual on the job needs to know and understand:

- KU1.** standard practices of fabrication works
- KU2.** safety rules and regulation for handling and storing required fabrication tools, equipment and materials
- KU3.** personal protection including the use of related safety gears & equipment
- KU4.** procedure for issue of tools and materials
- KU5.** different types of welding processes
- KU6.** different kits, tools and tackles used in different welding processes
- KU7.** different types of consumables, their classification based upon size, material and application in process
- KU8.** different types of gases used for fabrication activity and their distinguishing factors
- KU9.** importance of transporting gases in upright position
- KU10.** different types of grinding machines and their consumables
- KU11.** storage and stacking of different consumables used in different process of fabrication
- KU12.** various tools and tackles required in fabrication works
- KU13.** ergonomic principles to carry loads

Generic Skills (GS)

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

- GS1.** write in one or more language, preferably in the local language of the site
- GS2.** read one or more language, preferably the local language of the site
- GS3.** read instructions, guidelines, sign boards, safety rules & safety tags
- GS4.** instruction related to exit routes during emergency at the workplace
- GS5.** speak in one or more language, preferably in one of the local language of the site
- GS6.** listen and follow instructions / communication shared by superiors/ coworkers regarding team requirements or interfaces during work processes
- GS7.** orally communicate with co-workers regarding support required to complete the respective work
- GS8.** decide how to apply ergonomics principles while shifting and stacking light weight materials
- GS9.** identify location at which violation of any safety norms or protocols (with regards to stacking of heavy objects, controlling position of suspended objects, etc.) may lead to accidents



Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Identify and differentiate materials, tools and consumables used in the fabrication process</i>	12	48	-	-
PC1. identify and differentiate between various types of Kits process of welding works	-	-	-	-
PC2. identify the various shielding gas cylinders	-	-	-	-
PC3. identify and differentiate between gases based on their uses and applications related to gas cutting works	-	-	-	-
PC4. identify and differentiate between different types of filler rods used in different welding processes	-	-	-	-
PC5. identify and differentiate types of grinding wheels	-	-	-	-
PC6. identify and differentiate between different types of grinders such as fixed grinding machine, angle or portable grinders bend grinders etc	-	-	-	-
PC7. identify and differentiate between various tools and tackles employed in fitup operations	-	-	-	-
<i>Handle tools, tackles, consumables and lightweight materials used in fabrication</i>	8	32	-	-
PC8. handle and stack different tools that are required for welding operations	-	-	-	-
PC9. coil cables and pipes and shift them as per instructions	-	-	-	-
PC10. stack the wire/ cables as per manufactures guidelines as per standard safety norms and instruction	-	-	-	-
PC11. shift gas cylinders in upright position only, by employing trolleys or any other suitable mechanical means	-	-	-	-
PC12. stack full and empty cylinders separately as per instructions or standard practice	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. shift lightweight materials as per instruction applying the ergonomics of material handling	-	-	-	-
PC14. stack the light weight material at proper location as per instruction	-	-	-	-
PC15. carry out basic upkeep of various hand tools and tackles	-	-	-	-
NOS Total	20	80	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N1201
NOS Name	Identify, and handle materials, tools, tackles and consumables used for fabrication of structural steel elements
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Fabrication
NSQF Level	2
Credits	TBD
Version	2.0
Last Reviewed Date	NA
Next Review Date	NA
NSQC Clearance Date	



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CON/N1202: Provide support and assistance to fabrication activities

Description

This unit describes the skills and knowledge required to have good working knowledge of fabrication to enable the helper to provide assistance and support for fabrication activities

Scope

The scope covers the following :

- Provide support in welding/ gas cutting/ grinding operations
- Provide support in fitting operations
- Carry out bolting connections under continuous instructions and close supervision for jigs and fixtures

Elements and Performance Criteria

Provide support in welding/ gas cutting/ grinding operations

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

- PC1.** carry welding tools equipment and consumables to instructed location
- PC2.** clean the base material to remove any dust, oil, rust, paint etc. from the surface as per instructions
- PC3.** clean the base material to remove any dust. Oil, rust, paint, etc. from the surface as per instructions
- PC4.** ensure that cables / gas pipes are not tangled
- PC5.** carry portable grinding machines and consumables to instructed locations
- PC6.** store and stack the consumables as per requirement/ instructions and guidelines

Provide support in fitting operations

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

- PC7.** remove any scrap materials, dust etc from the fabrication platform
- PC8.** place the clamps and arrestors in place as per instructions
- PC9.** store and stack required tools and tackles as per instructions
- PC10.** carry light weight material to proper position as per instruction
- PC11.** assist in measurement activity as per instructions
- PC12.** mark the measurements and alignment as per instructions
- PC13.** carry out cleaning of assemblies and components prior to erection of the same

Carry out bolting connections under continuous instructions and close supervision for jigs and fixtures

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

- PC14.** identify the correct bolts for fixing as per instructions
- PC15.** identify the correct location of bolt/ group etc. as per instructions
- PC16.** identify and use washers and nuts as per instructions
- PC17.** tighten the bolts till desired torque is achieved as per instructions



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PC18. fix the bolts in a sequential manner as per as instructions

PC19. ensure that no scratches are inflicted upon the surface during bolting operation

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard practices of fabrication works
- KU2.** safety rules and regulation for handling and storing required fabrication tools, equipment and materials
- KU3.** personal protection including the use of related safety gears & equipment
- KU4.** how to request tools and materials as per set procedures
- KU5.** maintenance of tools and equipment
- KU6.** standard sizes of relevant fabrication tools
- KU7.** importance of clean joints in welding activity
- KU8.** process of removal of paint from base metal surface
- KU9.** process of removal of dust from base metal surface
- KU10.** importance of ventilation in welding
- KU11.** importance of proper illumination in welding
- KU12.** importance of proper fitting
- KU13.** process of preparing fabrication platform
- KU14.** importance of clamps and arrestors on fabrication platform
- KU15.** different tools and tackles required in fitting activity
- KU16.** importance of proper marking
- KU17.** procedure for marking on metal
- KU18.** different types of bolts
- KU19.** different methods of cleaning
- KU20.** components of a bolting assembly
- KU21.** common terminologies used in welding, gas cutting operations
- KU22.** common terminologies used in bolting and fitting operations
- KU23.** process of marking and measuring the dimensions of the assemblies
- KU24.** various tools and tackles used in joining assemblies through bolted connections
- KU25.** use and upkeep of different tools and tackles used
- KU26.** housekeeping, its importance and various practices involved

Generic Skills (GS)

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

- GS1.** write in one or more language, preferably in the local language of the site
- GS2.** read in at least one language, preferably in the local language of the site
- GS3.** read instructions, guidelines, sign boards, safety rules and safety tags



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- GS4.** instruction related to exit routes during emergency
- GS5.** SA5. speak in one or more languages, preferably in one of the local languages of the site
- GS6.** listen and follow instructions communicated by supervisors
- GS7.** communicate orally and efficiently with team member
- GS8.** ensure work is done within time and as per desired quality as per instructions provided by superiors
- GS9.** identify location at which violation of any safety norms may lead to accident



Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Provide support in welding/ gas cutting/ grinding operations</i>	6	28	-	-
PC1. carry welding tools equipment and consumables to instructed location	-	-	-	-
PC2. clean the base material to remove any dust, oil, rust, paint etc. from the surface as per instructions	-	-	-	-
PC3. clean the base material to remove any dust. Oil, rust, paint, etc. from the surface as per instructions	-	-	-	-
PC4. ensure that cables / gas pipes are not tangled	-	-	-	-
PC5. carry portable grinding machines and consumables to instructed locations	-	-	-	-
PC6. store and stack the consumables as per requirement/ instructions and guidelines	-	-	-	-
<i>Provide support in fitting operations</i>	8	32	-	-
PC7. remove any scrap materials, dust etc from the fabrication platform	-	-	-	-
PC8. place the clamps and arrestors in place as per instructions	-	-	-	-
PC9. store and stack required tools and tackles as per instructions	-	-	-	-
PC10. carry light weight material to proper position as per instruction	-	-	-	-
PC11. assist in measurement activity as per instructions	-	-	-	-
PC12. mark the measurements and alignment as per instructions	-	-	-	-
PC13. carry out cleaning of assemblies and components prior to erection of the same	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Carry out bolting connections under continuous instructions and close supervision for jigs and fixtures</i>	6	20	-	-
PC14. identify the correct bolts for fixing as per instructions	-	-	-	-
PC15. identify the correct location of bolt/ group etc. as per instructions	-	-	-	-
PC16. identify and use washers and nuts as per instructions	-	-	-	-
PC17. tighten the bolts till desired torque is achieved as per instructions	-	-	-	-
PC18. fix the bolts in a sequential manner as per as instructions	-	-	-	-
PC19. ensure that no scratches are inflicted upon the surface during bolting operation	-	-	-	-
NOS Total	20	80	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N1202
NOS Name	Provide support and assistance to fabrication activities
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Fabrication
NSQF Level	2
Credits	TBD
Version	2.0
Last Reviewed Date	NA
Next Review Date	NA
NSQC Clearance Date	



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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



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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



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	-	-	-	-



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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	-	-



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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	TBD
Version	5.0
Last Reviewed Date	NA
Next Review Date	NA
NSQC Clearance Date	

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) 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.
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.



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7. 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.
8. 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.
9. 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 timeframe set by SSC.
10. 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/N1201. Identify, and handle materials, tools, tackles and consumables used for fabrication of structural steel elements	20	80	-	-	100	30
CON/N1202. Provide support and assistance to fabrication activities	20	80	-	-	100	60
CON/N9001. Work according to personal health, safety and environment protocol at construction site	20	80	-	-	100	10
Total	60	240	-	-	300	100



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Acronyms

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



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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.



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Knowledge and Understanding (KU)	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.
Organisational Context	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.
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. 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.
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.