



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR GEMS & JEWELLERY INDUSTRY

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Introduction

Qualifications Pack-Rough Assorter

SECTOR: GEMS & JEWELLERY

SUB-SECTOR: Diamond processing

OCCUPATION: Rough assorting

REFERENCE ID: G&J/Q4101

ALIGNED TO: NCO-2004/ NIL

Rough Assorter: Also known as Sorter or Assorter, a rough assorter segregates the procured rough into different categories based on its characteristics.

Brief Job Description: The individual at work needs to divide rough diamonds into groups having similar characteristics, by looking at the rough through an eye glass under light, using his/her knowledge and experience. Each rough diamond is assessed according to its natural characteristics – judging specifically its colour, clarity, carat and model or shape.

Personal Attributes: The job requires the individual to have: attention to details; good eyesight; no colour-blindness; steady hands; ability to work for long hours in sitting position; vast experience; high concentration; and a lot of patience.

What are Occupational Standards(OS)?

- Solution OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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Qualifications Pack Code	G&J/Q4101		
Job Role	Rough Assorter		
Credits(NVEQF/NVQF/NSQF)	TBD	Version number	1.0
Sector	Gems &Jewellery	Drafted on	29/05/13
Sub-sector	Diamond Processing	Last reviewed on	30/07/13
Occupation	Rough Assorting	Next review date	15/07/15

Job Role	Rough Assorter Also known as 'Assorter' or 'Sorter'	
Role Description	Segregating rough diamonds into groups having similar characteristics, by looking at the rough through an eye glass under light	
NVEQF/NVQF level	4	
Minimum Educational Qualifications Maximum Educational Qualifications	Preferably 10 th Standard Passed	
Training	Not Applicable	
Experience	Not Applicable	
Applicable National Occupational Standards (NOS)	Compulsory: 1. G&J/N4101 Assort rough diamonds 2. G&J/N9930 Maintain IPR 3. G&J/N9931 Coordinate with team and superiors 4. G&J/N9933 Maintain safety Optional: Not applicable	
Performance Criteria	As described in the relevant OS units	







G&J/N4101 Assort rough diamonds

National Occupational Standard



Overview

This unit is the first stage post procurement in diamond processing. It involves segregation of rough diamonds of similar characteristics into groups like, makeable, sawable, cleavable, rejection and resale, to be sent for further processing. Each rough diamond is assessed according to its natural characteristics – judging specifically at its colour, clarity, carat and model or shape.







Unit Code	G&J/N4101
Unit Title (Task)	Assort rough diamond in different categories
Description	This OS unit is about segregation of rough diamonds of similar characteristics into groups like, makeable, sawable, cleavable, rejection and resale, to be sent for further processing
Scope	This unit/task covers the following:
	Receive the packet of polished diamonds from top management check the weight and number of stones, against what is mentioned on the packet remove the roughs from the packet and place them on the tray under the light clean the roughs using a cleaning cloth if required
	Classify broadly
	 use a sieve to classify the diamonds based on its size
	do a basic sorting based on shape and size
	Look at each rough individually through an eye glass and make further classification into groups as per company policy
	 hold the rough with the help of tweezers under light and view it through a loupe one by one
	 classify them into groups as per company policy, e.g. makeable – roughs which are ready to be sent for production sawable – roughs which need to be cut to remove certain inclusions or to attain maximum value cleavable- small roughs which can be cleaved manually and sawing is not
	required o rejection – roughs which should not be processed by the company as they will
	not add any value oresale – roughs which as per the company policy are processed outside, e.g. a company may process only roughs of > 50 cents, so all the roughs < 50 cents will be outsourced or sold to other parties
	Send the rough for windowing if one is not able to look into it clearly to make any judgment (if required)
	 Check the rough stone, determine its grade and classify in groups determine its properties such as purity, color, & size etc. i.e. 4Cs namely colour, clarity, carat, cut. keeping all the 4Cs in mind, give the rough stone a grade, make groups of roughs with similar grades and then send it for further processing accordingly
	Report problems about: mismatch in the number of roughs difference in the actual quality of roughs vis-à-vis specified on packet







	 any problems in identification of roughs difficulty in grading or classifying a particular rough (unclear characteristics of a 			
	rough), etc.			
Performance Criteria(PC) w.r.t. the Scope				
Element	Performance Criteria			
Quality of	To be competent, the user/individual on the job must be able to:			
Assortment	PC1.accurately segregate/group of the roughs as per the company's policies PC2. identify different types of rough, e.g. Syndicate, Australian, Coated, Braza, Clevage etc.			
	PC3. Judge accurately the approximate expected yield, expected clarity, etc. PC4. complete work with no loss of roughs			
Productivity	To be competent, the user/individual on the job must be able to:			
•	PC5. achieve the productivity in terms of carats or number of pieces as set by the company			
	PC6. deliver in time to next process			
Process Compliances	To be competent, the user/individual on the job must be able to:			
	PC7. comply with relevant legislation, standards, policies and procedures			
Knowledge and Unders	standing (K)			
A. Organizational	The individual on the job needs to know and understand:			
Context	KA1. company's policies on: acceptable limits of weight loss; incentives; delivery			
(Knowledge of the	standards; safety practices and hazards; security and performance			
company /	measurement			
organization and	KA2. work flow involved in company's diamond processing process			
its processes)	KA3. importance of the individual's role in the workflow KA4. reporting structure			
,	KA5. issue return procedures followed by the company			
	KA6. typical customer profile and market trends			
	KA7. specialization area of the company (size, clarity, shape, quality, etc. of diamonds)			
	KA8. diamond processing objective of the company, e.g. maximizing yield,			
	maximizing clarity, etc.			
B. Technical	The user/individual on the job needs to know and understand:			
Knowledge	KB1. identification of rough diamonds			
	KB2. formation of rough diamond - production from mines - sources & location			
	KB3. various types of rough e.g. Syndicate, Australian, Coated, Braza, Clevage etc.			
	and its characteristics			
	KB4. process of rough procurement - parcel from D.T.C. / I-I.D.C. / Belgium / Israel / Local - Bandha (i.e. Better - Medium - Weak)			
	KB5. polishing process in the factory (Bruting, Blocking, Bottom, Top, Table, Rounding, etc.)			
	KB6. 4Cs of diamond (Colour, Cut, Clarity and Carat)			
	KB7. rough diamond shading – colourwise (LB-LC-White-Fancy)			
	KB8. use of various scopes in diamond processing			







		KB9. stress (tension) of the diamond		
		KB10. gauging & sieve		
		KB11. valuation as per market practice		
		KB12. windowing process to look inside a rough		
Skills	s (S) [Optional]			
Α. (Core Skills/	Reading and writing skills		
(Generic Skills	The user/individual on the job needs to know and understand how:		
		SA1. to read descriptions on the rough packets/ bags		
		SA2. to label each segregated rough appropriately according to its features		
		SA3. to document work done for status and performance appraisal		
		Calculation and geometry skills		
		The user/individual on the job needs to know and understand how:		
		SA4. to count the number of roughs		
		SA5. to segregate roughs into groups based on common characteristics like size,		
		shape, etc.		
		SA6. to approximately estimate the value of the diamond		
		Communication skills		
		Communication skins		
		The user/individual on the job needs to know and understand how:		
		SA7. to discuss task, schedules, and work-loads with co-workers and supervisors		
		SA8. to understand instructions and report problems		
		Teamwork and multitasking skills		
		The user/individual on the job needs to know and understand how:		
		SA9. to share work load as required		
		SA10. to assist others who require help		
		SA11. to share knowledge with co-workers		
В. І	Professional Skills			
		<u> </u>		
		The user/individual on the job needs to know and understand how:		
		SB1. to make decisions pertaining to the concerned area of work of sorting		
		Using tools and machines		
		The user/individual on the job needs to know and understand how:		
		SB2. to work with the tools and machines used in assorting process such as		
		weighing scale, gauge, sieve, loupe/eye glass, tripod/table loupe, tweezers		
		and scoop		
		SB3. to maintain tools and machines used		
		SB4. to adjust lighting to view the diamonds clearly		
		SB5. to work in a safe environment, i.e., without injuries		
		Reducing loss		
		· ·		
		The user/individual on the job needs to know and understand how:		
		SB6. to handle rough diamonds with care		
		SB7. to minimize damage or loss of any diamond during the sorting process		
		SB8. to report diamond losses via documentation as per company policy		







SB9. to suggest improvements in order to reduce loss
Planning and organizing
The user/individual on the job needs to know and understand how:
SB10. to plan and organize work in order to ensure accurate and timely assortment
Diamond valuation
The user/individual on the job needs to know and understand how:
SB11. to derive the approximate value of the diamond based on the rough provided,
estimating its yield, clarity, shape, etc.
Analytical thinking
The user/individual on the job needs to know and understand how:
SB12. to use the knowledge/experience about similar quality of roughs in the past to
predict the final outcome/quality of the current lot
SB13. to analyze the expected yield, clarity from the rough, based on the source
Reflective thinking
The user/individual on the job needs to know and understand how:
SB14. to work for long hours in a sitting position without health problems
Critical thinking
The user/individual on the job needs to know and understand how:
SB15. to apply, analyze, and evaluate the knowledge gathered from observation,
experience, reasoning, or communication, as a guide to thought and action
SB16. to spot process disruptions and delays







Assort rough diamonds

NOS Version Control

NOS Code	G&J/N4101		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Gems &Jewellery	Drafted on	29/05/13
Industry Sub-sector	Diamond Processing	Last reviewed on	30/07/13
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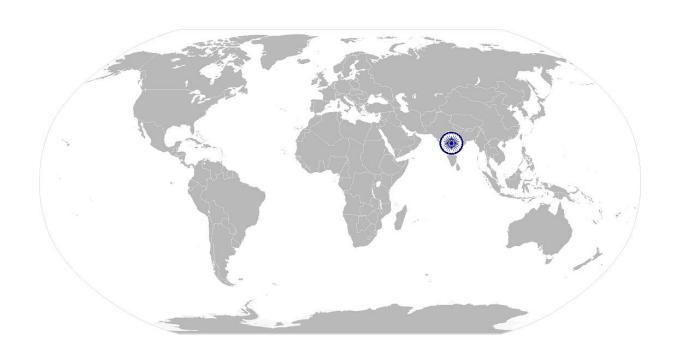






G&J/N9930 Maintain IPR

National Occupational Standard



Overview

This unit is about and respecting intellectual property rights (IPR) of the company's products, policies, procedures and orders.







Maintain IPR

G&J/N9930	Maintain IPR		
Unit Code	G&J/N9930		
Unit Title (Task)	Respect IPR of company		
Description	This OS unit is about maintaining company's intellectual property		
Scope	This unit/task covers the following:		
	Protect company's Intellectual Property Rights (IPR) • prevent leak of new orders to competitors by reporting on time		
	 prevent leak of flew orders to competitors by reporting on time prevent leak of the manufacturing processes or the policies followed by the 		
	company		
	be aware of any of company's product patents		
	 report IPR violations observed in the market, to supervisor or company heads 		
Performance Criteria(P			
Element	Performance Criteria		
Respecting IPR	To be competent, the user/individual on the job must be able to:		
	PC1. spot plagiarism and report		
	PC2. understand rationale of patents and IPR		
	PC3. avoid being involved in IPR violations		
Knowledge and Unders	standing (K)		
A. Organizational	The individual on the job needs to know and understand:		
Context	KA1. company's policies on IPR, plagiarism and order leaks		
	KA2. company's patented products		
	KA3. market trends and company's unique product range		
	KA4. reporting structure		
B. Technical	The individual on the job needs to know and understand:		
Knowledge	KB1. basics of patents and IPR laws		
	KB2. how IPR protection is important for competitiveness of a company		
Skills (S) [Optional]			
A. Core Skills/	Communication skills		
Generic Skills	The user/individual on the job needs to know and understand how:		
	SA1. to effectively communicate any observed IPR violations or leaks		
B. Professional Skills	Decision making		
	The user/individual on the job needs to know and understand when and how:		
	SB2. to report sources of IPR violations		
	Reflective thinking		
	The user/individual on the job needs to know and understand how:		
	SB3. to learn from past mistakes and report IPR violations on time		
	Critical thinking		
	The user/individual on the job needs to know and understand how:		
	SB4. to spot signs of violations and alert authorities in time		







Maintain IPR

NOS Version Control

NOS Code	G&J/N9930		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Gems &Jewellery	Drafted on	29/05/13
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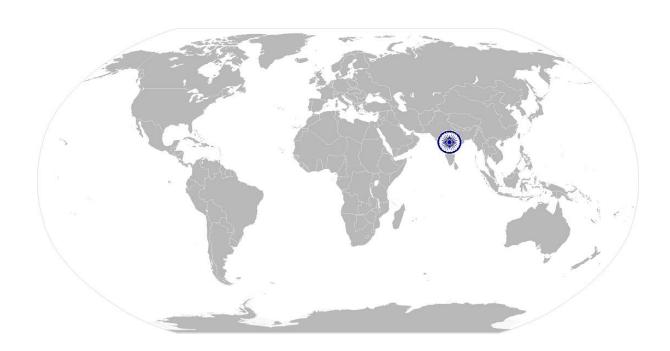






Coordinate with team and superiors

National Occupational Standard



Overview

This unit is about the work ethics, team work, and level of communication with colleagues or clients in the diamond processing industry. It determines the ability to work as a team member, share work and multi-task in order to achieve the required deliverables on schedule.







G&J/N9931 Coordinate with team and superiors

Unit Code	G&J/N9931
Unit Title	Interact with colleagues and seniors

Unit Code	G&J/N9931
Unit Title (Task)	Interact with colleagues and seniors
Description	This OS unit is about communicating with colleagues and seniors in order to maintain smooth ad hazards free work flow
Scope	 This unit/task covers the following: Interact with supervisor to: receive work instructions and raw materials from reporting supervisor communicate to reporting supervisor about process flow improvements, product defects received from previous process, repairs and maintenance of tools and machinery as required communicate any potential hazards or expected process disruptions handover completed work to supervisor
	 Interact with colleagues within and outside the department to: work as a team with colleagues and share work as per their or own work load and skills work with colleagues of other departments communicate an discuss work flow related difficulties in order to find solutions with mutual agreement receive feedback from QC and rework in order to complete work on time

Performance Criteria(PC) w.r.t. the Scope

Element	Performance Criteria		
Interaction with	To be competent, the user/individual on the job must be able to:		
supervisor	PC1. understand the work output requirements		
	PC2. comply with company policy and rule		
	C3. deliver quality work on time as required by reporting any anticipated reasons		
	for delays		
Interactions with	To be competent, the user/individual on the job must be able to:		
colleagues and other	PC4. put team over individual goals		
departments	C5. conflicts resolution and multi-tasking		

Knowledge and Understanding (K)		
A. Organizational Context (Knowledge of the company / organization and its processes)	The individual on the job needs to know and understand: KA1. company's policies on personnel management KA2. work flow involved in company's diamond processing KA3. importance of the individual's role in the workflow KA4. reporting structure	
B. Technical		
Knowledge	KB1. how to communicate effectively	
	KB2. how to build team coordination	







G&J/N9931 Coordinate with team and superiors

Ski	ills (S) [Optional]			
A.	Core Skills/	Teamwork and some multitasking		
	Generic Skills	The individual on the job needs to know and understand how:		
		SA1. to share work load as required		
		SA2. to deliver product to next work process on time		
В.	Professional Skills	Decision making		
		The individual on the job needs to know and understand:		
		SB1. how to report potential areas of disruptions to work process		
		SB2. when to report to supervisor and when to deal with a colleague depending on		
		the type of concern		
		Reflective thinking		
		The individual on the job needs to know and understand:		
		SB3. how to improve work process		
		Critical thinking		
		The individual on the job needs to know and understand:		
		SB4. how to spot process disruptions and delays		









Coordinate with team and superiors

NOS Version Control

NOS Code	G&J/N9931		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Gems &Jewellery	Drafted on	29/05/13
Industry Sub-sector	Diamond Processing	Last reviewed on	30/07/13
		Next review date	15/07/15



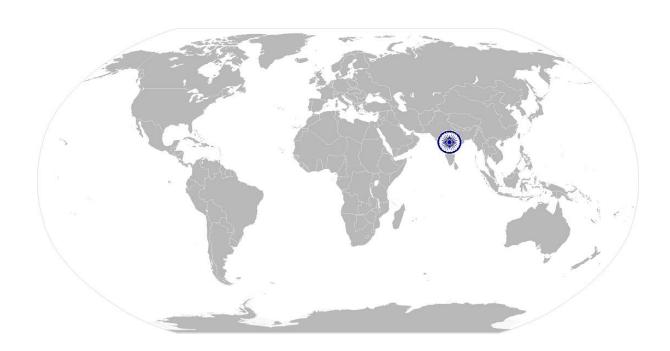






Maintain safety

National Occupational Standard



Overview

This unit is about the worker's commitment towards reporting potential hazards and containing accidents in order to make the work environment safe for self and colleagues.







Maintain safety

G&3/11//33	Wiamtam Sarcty		
Unit Code	G&J/N9933		
Unit Title (Task)	Maintain safety at work		
Description	This OS unit is about being aware of and communicating potential hazards and dangers of accidents on the job		
Scope	This unit/task covers the following: Understand potential sources of accidents		
	 to avoid accidents related to use of potentially dangerous chemicals, gases, sharp tools and hazards from machines like rotating scaife, lasers, heating ovens, etc. 		
	Use safety gear to avoid accidents		
	 wear safety gear such as goggles, mask, gloves, jacket, etc. as prescribed for the job 		
	Understand the safety procedures followed by the company		
	 such as fire drills, emergency/ evacuation procedures, first aid, etc., which will be helpful in case of an emergency 		
	Communicate to reporting supervisor about:		
	process flow improvements to reduce anticulated or repetitive hazards		
	 mishandling of tools, machines or hazardous materials 		
	electrical problems that could result in accident		

Performance Criteria(PC) w.r.t. the Scope

Element	Performance Criteria		
Understanding of	To be competent, the user/individual on the job must be able to:		
potential sources of	PC1. spot and report potential hazards on time		
accidents and	PC2. follow company policy and rules regarding hazardous materials		
communicating	PC3. deliver quality work on time as required by reporting any anticipated reasons		
	for delays		
Using safety gear	To be competent, the user/individual on the job must be able to:		
	PC4. understand which safety gear must we used for a particular task		
Understanding of	To be competent, the user/individual on the job must be able to:		
safety procedures	PC5. understand and follow the evacuation procedure properly during a fire drill		
	PC6. provide first aid to self or others in case of emergency		

Knowledge and Understanding (K)

knowledge and Onderstanding (k)			
A. Organizational	The individual on the job needs to know and understand:		
Context	KA1. company's policies on handling: harmful chemicals and sharp tools, safety and		
(Knowledge of the company / organization and its processes)	hazards of machines, fire safety/drill, first aid and, disposal of harmful chemicals and materials KA2. work flow involved in company's diamond processing KA3. importance of the individual's role in the workflow KA4. reporting structure		







G&J/N9933 Maintain safety

B. Technical	The individual on the job needs to know and understand:		
Knowledge	KB1. how different chemicals react and what could be the danger from them		
	KB2. how to use machines and tools without causing bodily harm		
	KB3. fire safety education		
	KB4. first aid execution		
	KB5. disposal of hazardous chemicals, tools and materials by following prescribed		
	environmental norms or as per company policy		
	, , , ,		
Skills (S) [Optional]			
A. Core Skills/	Communication skills		
Generic Skills	The individual on the job needs to know and understand how:		
	SA1. to effectively communicate the danger		
B. Professional Skills	Decision making		
	The individual on the job needs to know and understand:		
	SB1. importance of reporting potential sources of danger		
	SB2. appropriate actions to be taken in the event of an accident		
	SB3. procedure for disposing of hazardous materials, safely and following		
	environmental guidelines		
	Reflective thinking		
	The individual on the job needs to know and ur stand how:		
	SB4. to learn from past mistakes regarding use of hazardous machines, tools or		
	chemicals		
	Critical thinking		
	The individual on the job needs to know and understand:		
	SB5. how to spot danger		
	SB6. procedure to follow in the event of a fire or other hazard		



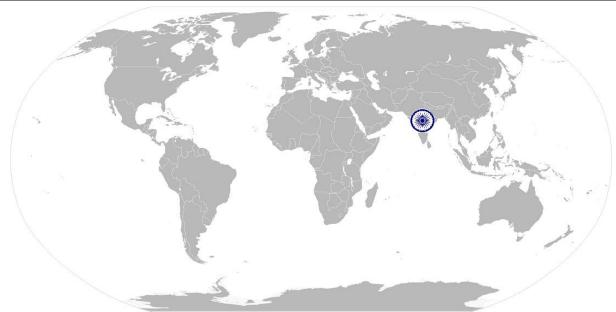




Maintain safety

NOS Version Control

NOS Code	G&J/N9933		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Gems &Jewellery	Drafted on	29/05/13
Industry Sub-sector	Diamond Processing	Last reviewed on	30/07/13
		Next review date	15/07/15







Keywords /Terms	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.		
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or an area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.		
Sub-function	Sub-functions are sub-activities essential to fulfil the achieving the objectives of the function.		
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 they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.		
Performance Criteria	Performance criteria are statements that together specify the standard of performance required when carrying out a task.		
National Occupational Standards (OS)	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	Knowledge and understanding 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	Core skills or generic skills 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.	
Keywords /Terms	Description	
IPR	Intellectual Property Rights	
NOS	National Occupational Standard(s)	
NVQF	National Vocational Qualifications Framework	
NSQF	National Qualifications Framework	
NVEQF	National Vocational Education Qualifications Framework	
QP	Qualifications Pack	

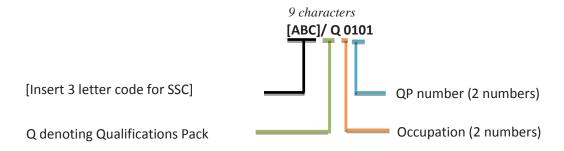




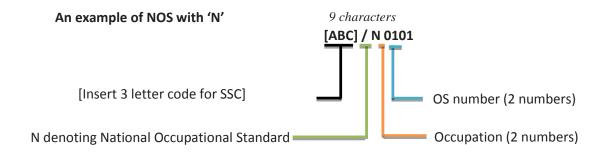
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard



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The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Handmade gold and gems-set jewellery	01-20
Cast and diamond-set jewellery	21-40
Diamond processing	41-60
Gemstone processing	61-80
Jewellery retailing	81-98

Sequence	Description	Example
Three letters	Industry name	G&J
Slash	/	/
Next letter	Whether Q P or N OS	Q
Next two numbers	Occupation code	41
Next two numbers	OS number	01







CRITERIA FOR ASSESSMENT OF TRAINEES				
Job Role	Rough Assorter			
Qualification Pack	Rough Assorter			
Sector Skill Council	GEMS & JEWELLERY			

Guidelines for Assessment:

1. To pass the Qualification Pack, every trainee should score a minimum of 50% in theory and 70% in practical assessments.

<u>0</u>			Marks Allocation	
		Theory	Skills Practical	
	PC1. accurately segregate/group of the roughs as per the company's policies	2	13	
G&J/N4101 This OS unit is about segregation of rough diamonds of similar characteristics into groups like, makeable, sawable, cleavable, rejection and resale, to be sent for further processing	PC2. identify different types of rough, e.g. Syndicate, Australian, Coated, Braza, Clevage etc.	1	12	
	PC3. Judge accurately the approximate expected yield, expected clarity, etc.	1	10	
	PC4. complete work with no loss of roughs	1	10	
	PC5. achieve the productivity in terms of carats or number of pieces as set by the company	1	10	
	PC6. deliver in time to next process	1	10	
	PC7. comply with relevant legislation, standards, policies and procedures	1 8	10 75	
		8	/5	





	PC1. spot plagiarism and report	1	0
G&J/N9930 This OS unit is about maintaining company's intellectual property	PC2. understand rationale of patents and IPR	1	0
	PC3. avoid being involved in IPR violations	1	0
		3	0
	PC1. understand the work output requirements	1	0
	PC2. comply with company policy and rule	1	0
G&J/N9931 This OS unit is about communicating with colleagues and seniors in order to maintain smooth ad hazards free work flow	PC3. deliver quality work on time as required by reporting any anticipated reasons for delays	0	2
	PC4. put team over individual goals	2	0
	PC5. conflicts resolution and multi-tasking	2	0 2
G&J/N9933 This OS unit is about being aware of and communicating potential hazards and dangers of accidents on the job	PC1. spot and report potential hazards on time	1	0
	PC2. follow company policy and rules regarding hazardous materials	1	0
100	PC3. deliver quality work on time as required by reporting any anticipated reasons for delays	1	0







PC4. understand which safety gear must we used for a particular task	0	1
PC5. understand and follow the evacuation procedure properly during a fire	drill 0	1
PC6. provide first aid to self or others in case of emergency	0	1
	20	80
		100