



## QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR GEMS & JEWELLERY INDUSTRY

## What are Occupational Standards(OS)?

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

Contact Us: GJSCI, Mumbai





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# Introduction Qualifications Pack-Polished Grader & Assorter: Basic

SECTOR: GEMS & JEWELLERY SUB-SECTOR: Diamond processing OCCUPATION: Final assorting REFERENCE ID: G&J/Q4903 ALIGNED TO: NCO-2004/7313.35 Polished grader & assorter (basic) polished grader & assorter (basic)

**Polished grader & assorter (basic):** Also known as Sorter or Assorter, the polished grader & assorter (basic) segregates the polished diamonds into two or three groups based on common characteristics.

**Brief Job Description:** The individual at work mainly works with a tripod or table loupe to segregate polished diamonds mainly less than 30 cents in size into two or three groups based on some common characteristic cut, carat, clarity or colour. The individual is responsible for delivering segregated diamonds with no loss.

**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; and a lot of patience.





Job Details

Qualifications Pack Code		G&J/Q4903	
Job Role	Polishec	l Grader & Assorter - k	oasic
Credits(NVEQF/NVQF/NSQF)	TBD	Version number	1.0
Sector	Gems & Jewellery	Drafted on	23/07/13
Sub-sector	Diamond Processing	Last reviewed on	30/07/13
Occupation	Final Assorting	Next review date	15/07/15

Job Role	Polished Grader & Assorter - basic Also known as 'Assorter' or 'Sorter'
Role Description	Segregating polished diamonds into groups having similar characteristics based on the 4 Cs, by looking at the diamonds through a tripod under adequate light
NVEQF/NVQF level	3
Minimum Educational Qualifications* Maximum Educational Qualifications*	Preferably 10 <sup>th</sup> Standard Passed
Training	Not Applicable
Experience	Not Applicable
Applicable National Occupational Standards (NOS)	Compulsory: 1. <u>G&amp;J/N4902 Assort small polished diamonds</u> 2. <u>G&amp;J/N9930 Maintain IPR</u> 3. <u>G&amp;J/N9931 Coordinate with team and superiors</u> 4. <u>G&amp;J/N9933 Maintain safety</u> Optional: Not applicable
Performance Criteria	As described in the relevant OS units

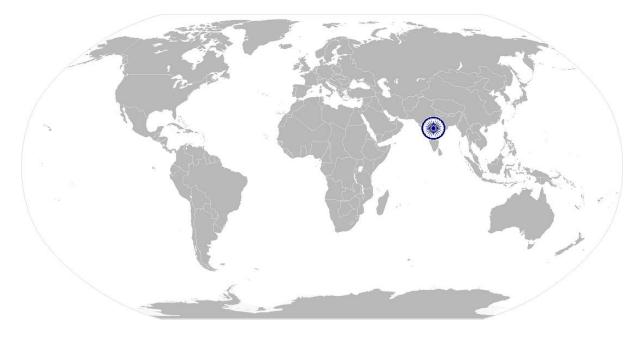






Assort small polished diamonds

# National Occupational Standard



## **Overview**

This unit is the final stage prior to packaging and dispatch in diamond processing. It involves segregation of small polished diamonds of similar characteristics into two or three groups as per company's requirements. Each diamond is assessed according to its colour, clarity, carat and cut for sorting.







Assort small polished diamonds

Unit Code	G&J/N4902
Unit Title (Task)	Assort small polished diamonds
Description	This OS unit is about segregating small (< 30 cents) diamonds into two to three groups based on 4Cs as per the company's requirement
Scope	This unit/task covers the following:
	<ul> <li>Receive the packet of polished diamonds from supervisor</li> <li>check the weight and number of stones against what is mentioned on the packet</li> <li>remove diamonds from the packet and place them on the tray under the light</li> <li>clean the diamonds using a cleaning cloth if required</li> </ul>
	Classify broadly
	<ul> <li>use a sieve to classify the diamonds based on its size and shape</li> </ul>
	<ul> <li>Sort the diamonds into groups based on colour, clarity or cut as required</li> <li>place the tripod or table loupe on the tray and view the diamonds one by one</li> <li>based on the understanding of the 4Cs judge its cut, colour and clarity</li> <li>distribute into two or three groups as per the company policy</li> <li>scoop and place segregated diamonds in packets, label as per the company's policy and return to the supervisor</li> </ul>
	<ul> <li>Report problems about:</li> <li>lighting failure</li> <li>tools shortage and their maintenance related issues</li> <li>reasons for anticipated delays that may adversely affect delivery</li> <li>mismatch in the number of diamonds against mentioned on packet</li> <li>difficulty in grading or classifying a particular diamond, e.g., unclear characteristics</li> </ul>
Performance Criteria(F	PC) w.r.t. the Scope
Element	Performance Criteria
Quality of output (assortment)	To be competent, the user/individual on the job must be able to: PC1.accurately segregate the polished diamonds as per company's policy PC2. judge the colour, clarity and cut of the diamondfor segregation PC3. deliver in time to next process PC4. complete work with no loss of diamonds
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
Knowledge and Under	standing (K)
A. Organizational Context (Knowledge of the	The individual on the job needs to know and understand: KA1. company's policies on: acceptable limits of weight loss; incentives; delivery standards; safety practices and hazards; security and performance







## Assort small polished diamonds

company /	measurement
organization and	KA2. work flow involved in company's diamond processing
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 a diamond
	KB2. 4Cs of a diamond
	KB3. gauging and sieving
	KB4. use of various scopes in diamond processing
Skills (S) [Optional]	
	Desis reading and uniting skills
A. Core Skills/	Basic reading and writing skills
Generic Skills	The user/individual on the job needs to know and understand how:
	SA1. to read descriptions on the diamond packets or bags
	SA2. to label each segregated lot appropriately according to its characteristics
	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 diamonds
	SA5. to measure the proportions of the diamond and calculate different ratios and
	percentages, e.g. table ratio, pavilion ratio, etc.
	Communication skills
	The user/individual on the job needs to know and understand how:
	SA6. to discuss task, schedules, and work-loads with co-workers and supervisors
	SA7. to understand instructions and report problems
B. Professional Skills	Using tools and machines
D. FIOLESSIONAL SKIIIS	
	The user/individual on the job needs to know and understand how:
	SB1. to work with the tools and machines used in assorting process such as
	weighing scale, gauge, sieve, tripod or table loupe andscoop
	SB2. to adjust lighting to view the diamonds clearly
	SB3. to work in a safe environment, i.e., without injuries
	Reducing loss
	The user/individual on the job needs to know and understand how:
	SB4. to handle diamonds with care



NOS National Occupational Standards



#### G&J/N4902

## Assort small polished diamonds

SB7. to suggest improvements in order to reduce loss
Reflective thinking
The user/individual on the job needs to know and understand how: SB8. 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: SB9. to spot process disruptions and delays







Assort small polished diamonds

# **NOS Version Control**

NOS Code	G&J/N4902		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Gems & Jewellery	Drafted on	23/07/13
Industry Sub-sector	Diamond Processing	Last reviewed on	30/07/13
		Next review date	15/07/15

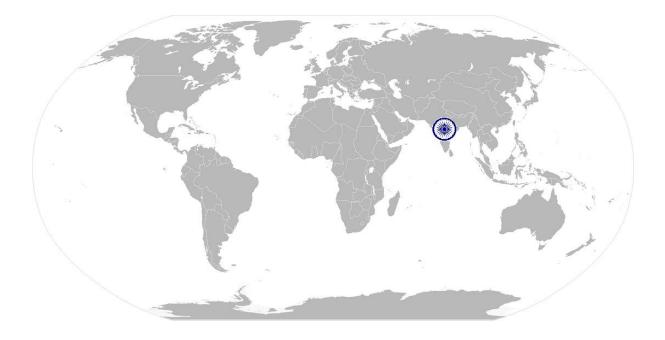






**Maintain IPR** 

# 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

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Unit Code	G&J/N9930
Unit Title (Task)	Respect IPR of company
Description	This OS unit is about maintaining company's intellectual property
Scope	<ul> <li>This unit/task covers the following:</li> <li>Protect company's Intellectual Property Rights (IPR)</li> <li>prevent leak of new orders to competitors by reporting on time</li> <li>prevent leak of the manufacturing processes or the policies followed by the company</li> <li>be aware of any of company's product patents</li> </ul>
	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 Context	<ul> <li>The individual on the job needs to know and understand:</li> <li>KA1. company's policies on IPR, plagiarism and order leaks</li> <li>KA2. company's patented products</li> <li>KA3. market trends and company's unique product range</li> <li>KA4. reporting structure</li> </ul>
B. Technical Knowledge	The individual on the job needs to know and understand: 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		
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Industry	Gems & Jewellery	Drafted on	30/07/13
Industry Sub-sector	Diamond Processing	Last reviewed on	15/07/15
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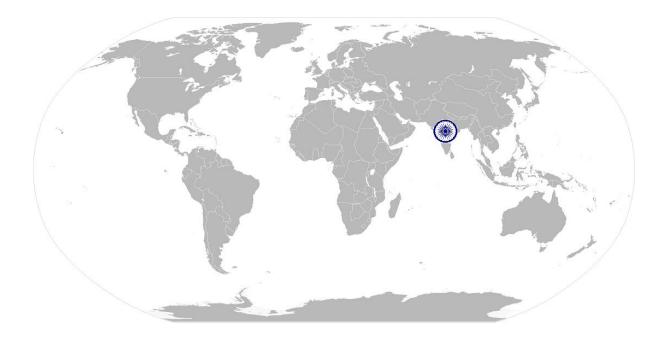






Coordinate with team and superiors

# 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.



## NOS National Occupational Standards



## G&J/N9931

Coordinate	with	team	and	superiors
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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	<ul> <li>This unit/task covers the following:</li> <li>Interact with supervisor to: <ul> <li>receive work instructions and raw materials from reporting supervisor</li> <li>communicate to reporting supervisor about process flow improvements, product defects received from previous process, repairs and maintenance of tools and machinery as required</li> <li>communicate any potential hazards or expected process disruptions</li> <li>handover completed work to supervisor</li> </ul> </li> <li>Interact with colleagues within and outside the department to: <ul> <li>work as a team with colleagues and share work as per their or own work load and skills</li> <li>work with colleagues of other departments</li> <li>communicate an discuss work flow related difficulties in order to find solutions with mutual agreement</li> </ul> </li> </ul>
Performance Criteria(P	<ul> <li>receive feedback from QC and rework in order to complete work on time</li> <li>C) w.r.t. the Scope</li> </ul>
Element	Performance Criteria
Interaction with supervisor	<ul> <li>To be competent, the user/individual on the job must be able to:</li> <li>PC1. understand the work output requirements</li> <li>PC2. comply with company policy and rule</li> <li>PC3. deliver quality work on time as required by reporting any anticipated reasons for delays</li> </ul>
Interactions with colleagues and other departments	To be competent, the user/individual on the job must be able to: PC4. put team over individual goals PC5. conflicts resolution and multi-tasking
Knowledge and Unders	standing (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

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NOS National Occupational Standards

Coordinate with team and superiors



#### G&J/N9931

B. Technical		The individual on the job needs to know and understand:			
Knowledge		KB1. how to communicate effectively			
	-	KB2. how to build team coordination			
Ski	lls (S) [Optional]				
Α.	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			
B. 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	23/07/13	
Industry Sub-sector	Diamond Processing	Last reviewed on	30/07/13	
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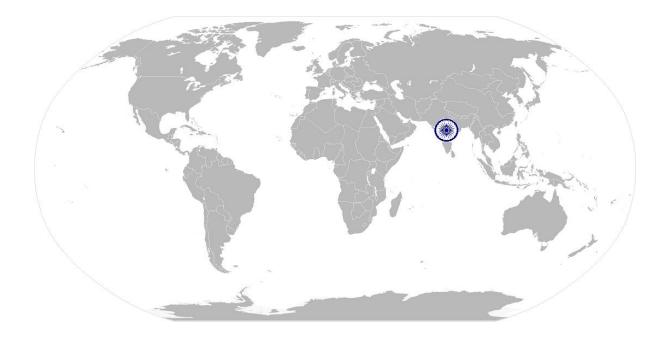






Maintain safety

# 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.



NOS
National Occupational Standards



G&J/N9933	Maintain safety				
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:				
	<ul> <li>Understand potential sources of accidents</li> <li>to avoid accidents related to use of potentially dangerous chemicals, gases, sharp tools and hazards from machines like rotating scaife, lasers, heating ovens, etc.</li> </ul>				
	<ul> <li>Use safety gear to avoid accidents</li> <li>wear safety gear such as goggles, mask, gloves , jacket , etc. as prescribed for the job</li> </ul>				
	<ul> <li>Understand the safety procedures followed by the company</li> <li>such as fire drills, emergency/ evacuation procedures, first aid, etc., which will be helpful in case of an emergency</li> </ul>				
	<ul> <li>Communicate to reporting supervisor about:</li> <li>process flow improvements to reduce anticipated or repetitive hazards</li> <li>mishandling of tools, machines or hazardous materials</li> <li>electrical problems that could result in accident</li> </ul>				
Performance Criteria(P	C) 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 communicating	<ul> <li>PC2. follow company policy and rules regarding hazardous materials</li> <li>PC3. deliver quality work on time as required by reporting any anticipated reasons for delays</li> </ul>				
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 safety procedures	To be competent, the user/individual on the job must be able to: 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 Unders	standing (K)				
A. Organizational Context (Knowledge of the	<ul> <li>The individual on the job needs to know and understand:</li> <li>KA1. company's policies on handling: harmful chemicals and sharp tools, safety and hazards of machines, fire safety/drill, first aid and, disposal of harmful chemicals and materials</li> </ul>				
company / organization and its processes)	<ul><li>KA2. work flow involved in company's diamond processing</li><li>KA3. importance of the individual's role in the workflow</li><li>KA4. reporting structure</li></ul>				



NOS National Occupational Standards



### G&J/N9933

Maintain safety

B. Technical Knowledge	<ul> <li>The individual on the job needs to know and understand:</li> <li>KB1. how different chemicals react and what could be the danger from them</li> <li>KB2. how to use machines and tools without causing bodily harm</li> <li>KB3. fire safety education</li> <li>KB4. first aid execution</li> <li>KB5. disposal of hazardous chemicals, tools and materials by following prescribed</li> </ul>			
	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 understand 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	1.0			
Industry	Gems &Jewellery	Drafted on	23/07/13		
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)	P) QP comprises the set of OS, together with the educational, training an 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			

Definitions





	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			

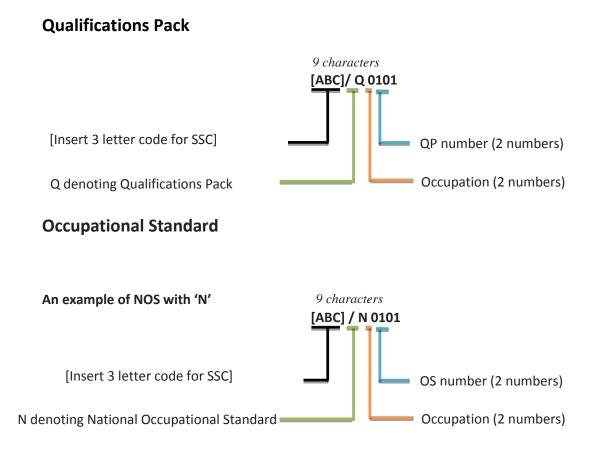


**Qualifications Pack For Polished Grader & Assorter - Basic** 



## <u>Annexure</u>

## Nomenclature for QP and NOS



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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 <b>Q</b> P or <b>N</b> OS	Q
Next two numbers	Occupation code	49
Next two numbers	OS number	09





## **CRITERIA FOR ASSESSMENT OF TRAINEES**

Job Role Polished Diamond Grader & Assorter (Basic)

#### Qualification Pack G&J/Q4903

#### Sector Skill Council Gem & Jewellery

#### **Guidelines for Assessment**

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 theory part will be based on knowledge bank of questions created by the SSC.

3. Individual assessment agencies will create theory question papers for candidates at every

examination/training centre. (as per assessment criteria below)

4. Individual assessment agencies will create practical tests for skill evaluation for candidates at every examination/training centre. (as per assessment criteria below)

5. To pass the Qualification Pack, every candidate should score a minimum of 50% in theory and 70% in practical to successfully clear the assessment.

6. In case of successfully passing only certain number of NOS's, the candidate is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.

				Marks Allocation	
		Total Marks (80+20)	Out Of	Theory	Skills Practical
1. G&J/N4902 Assort small polished diamonds	PC1. Accurately segregate the polished diamonds as per company's policy		25	5	20
	PC2. Judge the colour, clarity and cut of the diamond for segregation		25	5	20
	PC3. Deliver in time to next process <b>75</b>	75	5	0	5
	PC4. Complete work with no loss of diamonds		15	0	15
	PC5. Achieve the productivity in terms of carats or number of pieces as set by the company		5	0	5
		Total	75	10	65
2.G&J/N9930 Maintain IPR	PC1. Spot plagiarism and report		3	1	2
	PC2. Understand rationale of patents and IPR	9	4	2	2



## Qualifications Pack for Polished Diamond Grader & Assorter (Basic)



	PC3. Avoid being involved in IPR violations		2	1	1
		Total	9	4	5
3. G&J/N9931 Coordinate with others	PC1. Understand the work output requirements		2	1	1
	PC2. Comply with company policy and rule		1	0	1
	PC3. Deliver quality work on time as required by reporting any anticipated reasons for delays	8	1	0	1
	PC4. Put team over individual goals		2	1	1
	PC5. Conflicts resolution and multi- tasking		2	1	1
		Total	8	3	5
4. G&J/N9933 Maintain safe work environment	PC1. Spot and report potential hazards on time		4	2	2
	PC2. Follow company policy and rules regarding hazardous materials	8 Total	3	1	2
	PC3. Deliver quality work on time as required by reporting any anticipated reasons for delays		1	0	1
		iotai	0	5	5