



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR GEMS AND 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

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Introduction

Qualifications Pack - Spectrum Operator- Diamond Processing

SECTOR: GEMS & JEWELLERY

SUB-SECTOR: Diamond processing

OCCUPATION: Diamond planning

REFERENCE ID: G&J/Q4204

ALIGNED TO: NCO-2015/NIL

Brief Job Description: Individuals on this job use the spectrometer, light table and the D to Z machine (computer) to colour grade diamonds by analyzing the spectrum graph drawn and after passing light through the parallel windows created in the rough diamond in order to select the optimum plan. The spectrum operator evaluates the fluorescence in the rough diamond before assigning the final grades. In the diamond processing industry, the spectrum operator provides the colour grading to the various planned cuts of the diamond.

Personal Attributes: The job requires the individual to have: attention to details; good eyesight; ability to work for long hours in sitting position in front of the computer; high level of concentration; and a lot of patience.





Qualifications Pack Code	G&J/Q4204		
Job Role	Spectrum Operator- Diamond Processing		
Credits (NSQF)	TBD	Version number	2.0
Sector	Gems & Jewellery	Drafted on	28/08/2016
Sub-sector	Diamond Processing	Last reviewed on	24/11/2017
Occupation	Diamond Planning	Next review date	24/11/2021
NSQC Clearance on*	DD/MM/YYYY		

^{*} only after clearance from NSQC

Job Role	Spectrum Operator – Diamond Processing	
Role Description	Giving the expected final colour grading to various planned cuts of the rough diamond using a light table, spectrometer and a D-Z machine and picking an optimum plan	
NSQF level	3	
Minimum Educational Qualifications*	8th Standard	
Maximum Educational Qualifications*	Not applicable	
Training (Suggested but not mandatory)	Not Applicable	
Minimum job entry age	18 years	
Experience	Not applicable	
Applicable National Occupational Standards (NOS)	Compulsory: 1. G&J/N4204 Use spectrum for colour grading of the diamond 2. G&J/N9901 Coordinate with others 3. G&J/N9902 Maintain health and safety at workplace	
Performance Criteria	As described in the relevant OS units	





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.
Job role	Job role defines a unique set of functions that together form a unique
Occupational Standards (OS)	employment opportunity in an organisation. 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 organizational specific knowledge that an individual needs 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	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 the context of the OS, these include communication related skills that are applicable to most job roles.



Qualifications Pack for Spectrum Operator- Diamond Processing



Acronyms

Keywords /Terms	Description
NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack

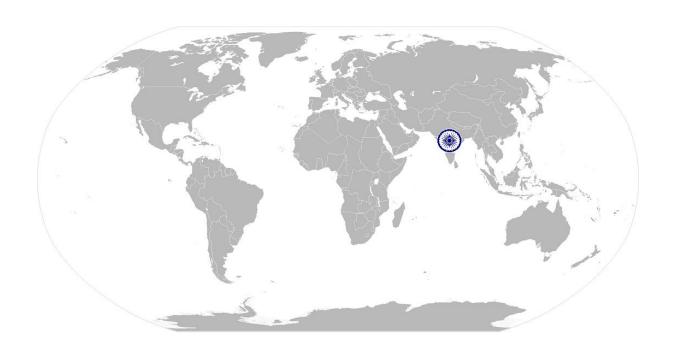






Use spectrum for colour grading of the diamond

National Occupational Standard



Overview

This unit is about using the light table to pass light through the parallel windows created on the rough diamond, analyzing the transmission spectrum graph made by the spectrometer and using the D-Z machine to provide the expected colour of each cut planned in order to select the optimum plan. They key objective of this process is to grade the expected colour from the planned cuts of a rough diamond.







G&J/N4204 Use spectrum for colour grading of the diamond

Unit Code	G&J/N4204
Unit Title (Task)	Use spectrum for colour grading of the diamond
Description	This OS unit is about using the spectrum machine to judge the expected colour of the various planned cuts of the rough diamond.
Scope	This unit/task covers the following:

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

Element	Performance Criteria
Preparing rough for spectrum operation	To be competent, the user/individual on the job must be able to: PC1. collect rough diamond packet and match specifications such as shape, size, dimensions, etc., of the rough received as per those mentioned on the packet PC2. check the planning of the rough provided PC3. inspect the rough diamond using an expension glass and check if there is any damage PC4. check if the existing windows are sufficient, else mark and send for more window PC5. check if there was any damage during windowing or extra weight loss PC6. check the parallel window, by placing it on the light table, if the light passes through it or not PC7. ensure there is no dirt on the rough diamond. Clean it before further processing
Operating the spectrum set-up	PC8. ensure accurate placement of the windowed rough on the light table for passing light and imaging PC9. ensure accurate use of the spectrometer to create the graphs PC10. ensure the data entered of the parameters such as dimensions, are correct PC11. ensure accurate sharing and transfer of data from one unit to another
Maintaining quality of output	PC12. ensure apt process of carrying out colour estimation PC13. optimize the planning PC14. ensure accurate marking of the rough for windowing PC15. ensure correct bagging and labelling of the rough packets before returning
Achieving productivity	PC16. achieve the productivity in terms of carats or number of pieces as set by the company PC17. ensure timely delivery for further processing
Controlling defects	PC18. ensure no damage to the rough diamond is acused during the spectrum process PC19. spot fluorescence in a rough and adjust the colour grade







G&J/N4204 Use spectrum for colour grading of the diamond

	PC20. asses that the marking is correct for the parallel window required and will
	not damage the diamond
Knowledge and Unders	standing (K)
A. Organizational Context	 The user/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 measurement KA2. Non-disclosure of "confidential information" provided by the company either orally or in writing marked as confidential KA3. Liability arising out of loss, theft, or inadvertent disclosure of confidential information KA4. Work flow involved in company's diamond processing KA5. Importance of the individual's role in the workflow KA6. Reporting structure KA7. Issue return procedures followed by the company KA8. Typical customer profile and market trends KA9. Specialization area of the company (size, clarity, shape, quality, etc. of diamonds) KA10. Diamond processing objective of the company, e.g. maximizing yield,
	maximizing clarity, etc.
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. Computer and spectrum machine operations KB2. Diamond planning KB3. Shape, cut, clarity, carat, colour and physical characteristics of the diamond KB4. Spectrum process KB5. Operations of light table, Spectrometer and D Z machine KB6. Colour grading of a diamond KB7. File sharing on company's server KB8. Valuation of a diamond KB9. Potential ways that may cause damage to a diamond KB10. Windowing process KB11. Use of various scopes in diamond processing KB12. Geometry to understand the angles and symmetry KB13. Fluorescence level
Skills (S) [Optional]	
A. Core Skills/	Writing Skills
Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. To document work done for status and performance appraisal SA2. To report diamond losses via documentation as per company policy







G&J/N4204 Use spectrum for colour grading of the diamond

	Reading Skills	
	SA3. To read descriptions on the diamond packets/ bags	
	SA4. To make various entries on the computer	
	SA5. To understand the results displayed by the computer and read manuals	
	Oral Communication (Listening and Speaking skills)	
	SA6. To discuss task, schedules, and work-loads with co-workers and supervisors	
	SA7. To share work load as required	
	SA8. To assist others who require help	
	SA9. To share knowledge with co-workers	
	SA10. To understand instructions	
	SA11. Report problems such as:	
	Difficulty in plan selection,	
	 Inability to decide planes for creating parallel windows, 	
	Damage to the rough while windowing,	
	Machine / software failures,	
	Reasons for anticipated delays that may adversely affect delivery	
B. Professional Skills	Decision Making	
	The user/individual on the job needs to knownd understand how to:	
	SB1. To decide the final colour grade to be assigned to each cut planned	
	SB2. To decide on the placement of the marking for creating parallel window	
	Plan and Organize	
	SB3. To plan the parallel windows of the rough	
	SB4. To use the graphs displayed by the spectrometer	
	SB5. To select the best plan of the diamond to maximize value	
	SB6. To plan work for maximum productivity	
	Customer Centricity	
	N.A.	
	Problem Solving	
	SB7. Resolve difficulties in plan selection with the help of supervisor	
	Analytical Thinking	
	SB8. To assess the accuracy of the windowing of the rough given	
	SB9. To analyze the options as per company's objectives before final plan selection	
	SB10. To devise new means of working to improve productivity	
	SB11. To suggest different or innovative plans, which may yield higher returns for	
	the company	
	Critical Thinking	
	SB12. To spot process disruptions and delays	
	ı	







Use spectrum for colour grading of the diamond

NOS Version Control

NOS Code		G&J/N4204	
Credits (NSQF)	TBD	Version number	2.0
Industry	Gems & Jewellery	Drafted on	28/08/2016
Industry Sub-sector	Diamond Processing	Last reviewed on	24/11/2017
Occupation	Diamond Planning	Next review date	24/11/2021



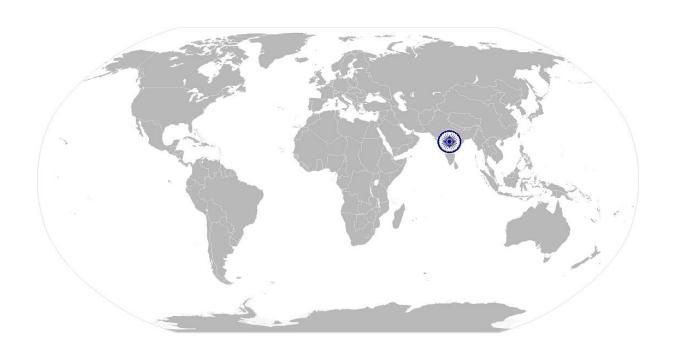






Coordinate with others

National Occupational Standard



Overview

This unit is about team work and communication with colleagues or clients. It determines the coordination capability of an individual to work as a team member, share work and multitask in order to achieve the deliverables on schedule.







Coordinate with others

Unit Code	G&J/N9901		
Unit Title	Coordinate with others		
(Task)			
Description	This OS unit is about communicating with colleagues, seniors and outside parties in order to achieve the deliverables on schedule		
Scope	This unit/task covers the following:		
300pc	Interacting with supervisor		
	Interacting with colleagues within and outside the department		
	Interacting with outside parties		
Performance Criteria(P	C) w.r.t. the Scope		
Element	Performance Criteria		
Interacting with	To be competent, the user/individual on the job must be able to:		
supervisor	PC1. coordinate for receiving work instructions and raw materials from reporting supervisor		
	PC2. communicate to the reporting supervisor about process flow improvements,		
	product defects received from previous process, repairs and maintenance of		
	tools and machinery as required		
	PC3. communicate to reporting supervisor about operation details and hazards PC4. interact with supervisor regarding compliance of company policy and rules		
	PC4. Interact with supervisor regarding compliance of company policy and rules		
Interacting with	PC5. coordinate with colleagues to share work, as per the workload		
colleagues within and	PC6. communicate and discuss work flow related difficulties in order to find		
outside the	solutions with mutual agreement		
department	PC7. coordinate and receive feedback from quality control department PC8. coordinate for putting team goals over individual goals		
	PC9. resolve conflicts by communicating with colleagues and other departments		
	PC10. coordinate with colleagues regarding multitasking in other departments with		
	requirements		
Interacting with	PC11. adhere to nondisclosure policy of the company in all outside coordination		
outside parties			
Knowledge and Unders	standing (K)		
A. Organizational	The user/individual on the job needs to know and understand:		
Context	KA1. Company's policies on: preferred language of communication, reporting and		
	escalation policy, quality delivery standards, and personnel management		
	KA2. Company's policies on non-disclosure of "confidential information" provided by the company either orally or in writing marked as confidential		
	KA3. Liability arising out of loss, theft, or inadvertent disclosure of confidential		
	information		
	KA4. Reporting structure		







Coordinate with others

B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KB1. Various categories of people that one is required to communicate and		
·	coordinate within the organization		
	KB2. Importance of effective communication in the workplace		
	KB3. Importance of teamwork in organization and individual success		
	KB4. Various components of effective communication		
	KB5. Key elements of active listening		
	KB6. Barriers to effective communication		
	KB7. Importance of avoiding casual expletives and unpleasant terms while		
	communicating professional circles		
	KB8. Common reasons for interpersonal conflict		
	KB9. Expressing and addressing grievances appropriately and effectively		
	KB10. What constitutes disciplined behavior for a working professional		
Skills (S) [Optional]			
	Writing Skills		
A. Core Skills/	WITCHING SKILLS		
Generic Skills	The user/individual on the job needs to know and understand how to:		
	SA1. Write instructions, remarks, job sheets, basic information, technical details		
	etc. in preferred local language of communication and English		
	Reading Skills		
	SA2. Read preferred language of communication as prescribed by the company		
	SA3. Read job sheets and interpret technical details mentioned in the job sheet		
	Oral Communication (Listening and Speaking skills)		
	Crair Communication (=1000mmg and operating orange)		
	SA4. Discuss task lists, schedules, and work-loads with co-workers		
	SA5. Be a good listener		
	SA6. Be effective in communicating the issues faced to the supervisor		
	SA7. Avoid using jargon, slang or acronyms when communicating		
B. Professional Skills	Decision Making		
D. Professional Skills	Decision Waking		
	The user/ individual on the job needs to know and understand how to:		
	SB1. Spot and communicate potential areas of disruptions to work process and		
	report the same		
	SB2. Report to supervisor and or to deal with a colleague individually, depending		
	on the type of concern		
	Plan and Organize		
	SB3. Collate information and communicate in a manner that is clear and		
	comprehensive to colleagues and supervisor		
	Customer Centricity		







Coordinate with others

SE	34. Convey accurate information to all internal as well as external customers (or right information to right person)
Pro	blem Solving
SE	35. How to handle critical situations caused due to communication issues at workplace and solve problems without blaming others
Ana	alytical Thinking
SE	36. Analyse the work processes by interacting with others and adopting best practices
SE	7. Use prior experience to observe and reflect for development of ideas
Crit	ical Thinking
SE	88. Think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s)
SE	 Deal with clients lacking the technical background to solve the problem on their own
SE	10. Spot process disruptions and delays and report and communicate with solutions
and the second s	11. Identify immediate or temporary solutions to resolve delays 12. Apply, analyze, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to thought and action







Coordinate with others

NOS Version Control

NOS Code	G&J/N9901				
Credits (NSQF)	TBD	Version number	2.0		
Industry	Gems & Jewellery	Drafted on	28/08/2016		
Industry Sub-sector	Diamond Processing	Last reviewed on	24/11/2017		
Occupation	Diamond Planning	Next review date	24/11/2021		





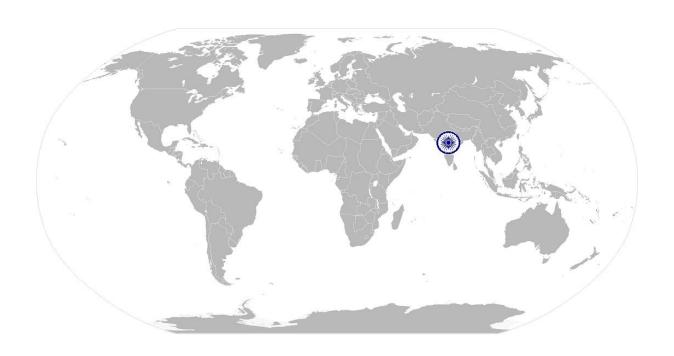




Maintain health and safety at workplace

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National Occupational Standard



Overview

This unit is about commitment towards reporting potential hazards, taking preventive measures to avoid accidents in order to make the work environment safe for self and colleagues and also helps in maintaining health and safety at workplace.







Maintain health and safety at workplace

Unit Code	G&J/N9902
Unit Title (Task)	Maintain health and safety at workplace
Description	This OS unit is about being aware of, communicating and taking steps towards minimizing potential hazards and dangers of accidents on the job and maintaining health and safety at workplace
Scope	This unit/task covers the following: • Health and safety in work area • Fire safety • Emergencies, rescue and first aid procedures
Performance Criteria(P	C) w.r.t. the Scope
Element	Performance Criteria
Health and safety in work area	To be competent, the user/individual on the job must be able to: PC1. identify and use appropriate protective clothing/equipment for specific tasks and work PC2. identify hazardous job activities in his/her job and communicate the possible causes of risks or accidents in the workplace PC3. carry out safe working practices while dealing with hazards to ensure safety of self and others PC4. identify and avoid doing any tasks or activities in a bad working position PC5. practice appropriate working postures to minimise occupational health related issues
Fire safety	PC6. use the appropriate fire extinguishers on different types of fire PC7. demonstrate rescue techniques applied during fire hazard PC8. demonstrate good housekeeping in order to prevent fire hazards PC9. demonstrate the correct use of any fire extinguisher
Emergencies, rescue and first aid procedures	PC10. administer appropriate first aid procedure to victims wherever required eg.in case of bleeding, burns, choking, electric shock etc. PC11. respond promptly and appropriately to an accident situation or medical emergency PC12. participate in emergency procedures such as raising alarm, safe evacuation, correct means of escape, correct assembly point etc.
Knowledge and Unders	standing (K)
A. Organizational Context	The user/individual on the job needs to know and understand: KA1. Company's policies on: safety and hazards and personnel management KA2. Names and location of documents that refer to health and safety in work place

KA3. Reporting structure







Maintain health and safety at workplace

B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. Meaning of "hazard's" and risks
	KB2. Health and safety hazards commonly present in the work place and related precautions
	KB3. Various dangers associate with use of electrical equipment
	KB4. Preventative and remedial actions to be taken in case of exposure to toxic material
	KB5. Methods of accident prevention
	KB6. How different chemicals react and what could be the danger from them
	KB7. How to use machines and tools without suffering bodily harm
	KB8. Importance of using protective clothing/ equipment while working
	KB9. Precautionary activities to prevent the fire accident
	KB10. Various causes of fire
	KB11. Techniques of using different fire extinguishers
	KB12. Different materials used for extinguishing fire
	KB13. Rescue techniques applied during a fire hazard
	KB14. Various types of safety signs and what they mean
	KB15. Appropriate basic first aid treatment relevant to condition e.g. bleeding,
	minor burns, eye injuries etc.
	KB16. Potential impact to a person who is moved incorrectly
Skills (S) [Optional]	
A. Core Skills/	Writing Skills
A. Core Skills/	
A. Core Skills/ Generic Skills	Writing Skills The individual on the job needs to know and understand how to: N.A.
•	The individual on the job needs to know and understand how to:
•	The individual on the job needs to know and understand how to: N.A.
•	The individual on the job needs to know and understand how to: N.A. Reading Skills
•	The individual on the job needs to know and understand how to: N.A. Reading Skills SA1. Read and comprehend basic content to read labels, charts, signage's
•	The individual on the job needs to know and understand how to: N.A. Reading Skills SA1. Read and comprehend basic content to read labels, charts, signage's SA2. Read and comprehend basic English to read manuals of operations
•	The individual on the job needs to know and understand how to: N.A. Reading Skills SA1. Read and comprehend basic content to read labels, charts, signage's SA2. Read and comprehend basic English to read manuals of operations Oral Communication (Listening and Speaking skills)
Generic Skills	The individual on the job needs to know and understand how to: N.A. Reading Skills SA1. Read and comprehend basic content to read labels, charts, signage's SA2. Read and comprehend basic English to read manuals of operations Oral Communication (Listening and Speaking skills) SA3. Effectively communicate the risk of not following safety measures
Generic Skills	The individual on the job needs to know and understand how to: N.A. Reading Skills SA1. Read and comprehend basic content to read labels, charts, signage's SA2. Read and comprehend basic English to read manuals of operations Oral Communication (Listening and Speaking skills) SA3. Effectively communicate the risk of not following safety measures Decision Making
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Generic Skills	The individual on the job needs to know and understand how to: N.A. Reading Skills SA1. Read and comprehend basic content to read labels, charts, signage's SA2. Read and comprehend basic English to read manuals of operations Oral Communication (Listening and Speaking skills) SA3. Effectively communicate the risk of not following safety measures Decision Making The individual on the job needs to know and understand how to: SB1. Report potential sources of danger
Generic Skills	The individual on the job needs to know and understand how to: N.A. Reading Skills SA1. Read and comprehend basic content to read labels, charts, signage's SA2. Read and comprehend basic English to read manuals of operations Oral Communication (Listening and Speaking skills) SA3. Effectively communicate the risk of not following safety measures Decision Making The individual on the job needs to know and understand how to: SB1. Report potential sources of danger SB2. Follow the relevant prescribed procedure in the event of an accident
Generic Skills	The individual on the job needs to know and understand how to: N.A. Reading Skills SA1. Read and comprehend basic content to read labels, charts, signage's SA2. Read and comprehend basic English to read manuals of operations Oral Communication (Listening and Speaking skills) SA3. Effectively communicate the risk of not following safety measures Decision Making The individual on the job needs to know and understand how to: SB1. Report potential sources of danger SB2. Follow the relevant prescribed procedure in the event of an accident SB3. Wear appropriate safety gear to avoid an accident

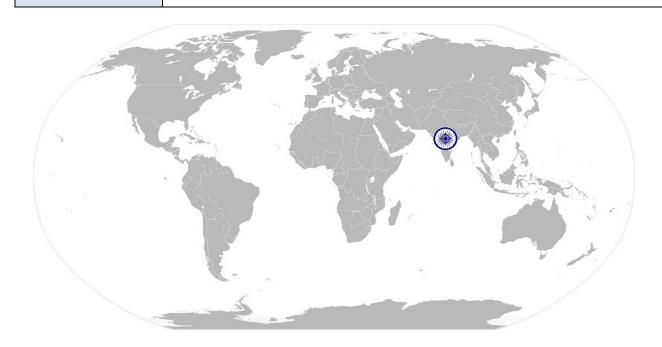






Maintain health and safety at workplace

N. A.
Problem Solving
SB5. Adhere to and guide others to follow prescribed procedures related to health and safety at workplace
Analytical Thinking
SB6. Analyse untoward incidents from the past and implement correct use of machines, tools or hazardous chemicals
Critical Thinking
SB7. Critically analyse the processes carried out by self and by colleagues in the department to spot potential hazards and safety issues









Maintain health and safety at workplace

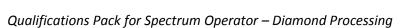
NOS Version Control

NOS Code	G&J/N9902				
Credits (NSQF)	TBD	Version number	2.0		
Industry	Gems & Jewellery	Drafted on	28/08/2016		
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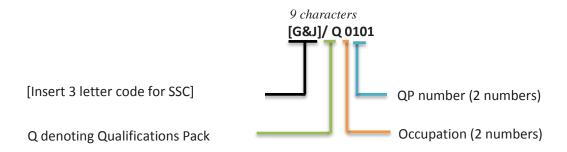




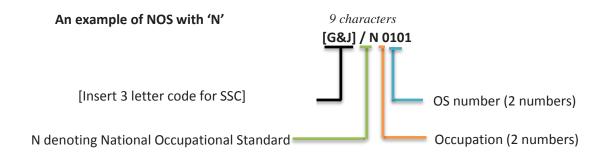
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard



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G&J/Q4204 Qualifications Pack for Spectrum Operator – Diamond Processing

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

Sub-sector	Range of Occupation numbers
Handmade gold and gems-set	01-11
jewellery	42.22
Imitation Jewellery	12-20
Cast and diamond-set jewellery	21-40
Diamond processing	41-60
Gemstone processing	61-80
Jewellery retailing	81-90
Silver Smithing	91-98
Common	99

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





Criteria For Assessment Of Trainees

<u>Job Role</u> Spectrum Operator- Diamond Processing <u>Qualification Pack</u> G&J/Q4204 <u>Sector Skill Council</u> 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. 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 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 this criterion.
- 6. To pass the Qualification Pack, every trainee should score a minimum of 50% of aggregate marks to successfully clear the assessment.
- 7. In case of *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.

Total Marks: 100	Compulsory NO:	S		Marks Allocation	
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
1. G&J/N4204 Use spectrum for colour grading of the diamond	PC1. collect rough diamond packet and match specifications such as shape, size, dimensions, etc., of the rough received as per those mentioned on the packet	60	2	0	2
	PC2. check the planning of the rough provided		3	1	2
	PC3. inspect the rough diamond using an eye glass and check if there is any damage		3	1	2
	PC4. check if the existing windows are sufficient, else mark and send for more window		4	1	3
	PC5. check if there was any damage during windowing or extra weight loss		3	1	2
	PC6. check the parallel window, by placing it on the light table, if the light passes through it or not		3	1	2
	PC7. ensure there is no dirt on the rough diamond. Clean it		2	0	2



Qualifications Pack for Spectrum Operator – Diamond Processing



Total Marks: 100	Compulsory NOS	S .		Marks Allocation	
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	before further processing				
	PC8. ensure accurate placement of the windowed rough on the light table for passing light and imaging		5	1	4
	PC9. ensure accurate use of the spectrometer to create the graphs		3	1	2
	PC10. ensure the data entered of the parameters such as dimensions, are correct		3	1	2
	PC11. ensure accurate sharing and transfer of data from one unit to another		2	1	1
	PC12. ensure apt process of carrying out colour estimation		4	0	4
	PC13. optimize the planning		3	0	3
	PC14. ensure accurate marking of the rough for windowing		4	1	3
	PC15. ensure correct bagging and labelling of the rough packets before returning		2	1	1
	PC16. achieve the productivity in terms of carats or number of pieces as set by the company		3	1	2
	PC17. ensure timely delivery for		2	1	1
	PC18. ensure no damage to the rough diamond is acused during the spectrum process		3	0	3
	PC19. spot fluorescence in a rough and adjust the colour grade		3	1	2
	PC20. asses that the marking is correct for the parallel window required and will not damage the diamond		3	0	3
	Total		60	14	46





Total Marks: 100	Compulsory NOS	\$		Marks Allocation	
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
2. G&J/N9901 Coordinate with others	PC1. coordinate for receiving work instructions and raw materials from reporting supervisor		1	0	1
	PC2. communicate to the reporting supervisor about process flow improvements, product defects received from previous process, repairs and maintenance of tools and machinery as required		1	0	1
	PC3. communicate to reporting supervisor about operation details and hazards		1	0	1
	PC4. interact with supervisor regarding compliance of company policy and rules		2	0	2
	PC5. coordinate with colleagues to share work, as per the workload	20	3	0	3
	PC6. communicate and discuss work flow related difficulties in order to find solutions with mutual agreement		2	0	2
	PC7. coordinate and receive feedback from quality control department		2	1	1
	PC8. coordinate for putting team goals over individual goals		1	0	1
	PC9. resolve conflicts by communicating with colleagues and other departments		2	0	2
	PC10. coordinate with colleagues regarding multitasking in other departments with requirements		3	1	2
	PC11. adhere to nondisclosure policy of the company in all outside coordination		2	1	1
	Total		20	3	17





Total Marks: 100	Compulsory NOS	S		Marks Al	location
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
3. G&J/N9902 Maintain health and safety at workplace	PC1. identify and use appropriate protective clothing/equipment for specific tasks and work		2	0	2
	PC2. identify hazardous job activities in his/her job and communicate the possible causes of risks or accidents in the workplace		1	0	1
	PC3. carry out safe working practices while dealing with hazards to ensure safety of self and others		1	0	1
	PC4. identify and avoid doing any tasks or activities in a bad working position		2	0	2
	PC5. practice appropriate working postures to minimise occupational health related issues		2	1	1
	PC6. use the appropriate fire extinguishers on different types of fire	20	1	0	1
	PC7. demonstrate rescue techniques applied during fire hazard		2	0	2
	PC8. demonstrate good housekeeping in order to prevent fire hazards		1	0	1
	PC9. demonstrate the correct use of any fire extinguisher		2	0	2
	PC10. administer appropriate first aid procedure to victims wherever required eg.in case of bleeding, burns, choking, electric shock etc.		1	0	1
	PC11. respond promptly and appropriately to an accident situation or medical emergency		3	1	2
	PC12. participate in emergency procedures such as raising alarm, safe evacuation, correct means of escape, correct assembly point		2	1	1



Qualifications Pack for Spectrum Operator – Diamond Processing



Compulsory NOS Total Marks: 100				Marks Allocation	
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	etc.				
	Total		20	3	17