

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

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Introduction

Qualifications Pack-Jewellery Polisher

SECTOR: GEMS & JEWELLERY

SUB-SECTOR: Cast and Diamond-Set Jewellery

OCCUPATION: Jewellery Polishing

REFERENCE ID: G&J/Q3001

ALIGNED TO: NCO-2004/7313.28

Jewellery Polisher: In the cast and diamond-set jewellery manufacturing, polishing is a multi-stage job role, i.e., at different stages such as pre-setting polish and final polish

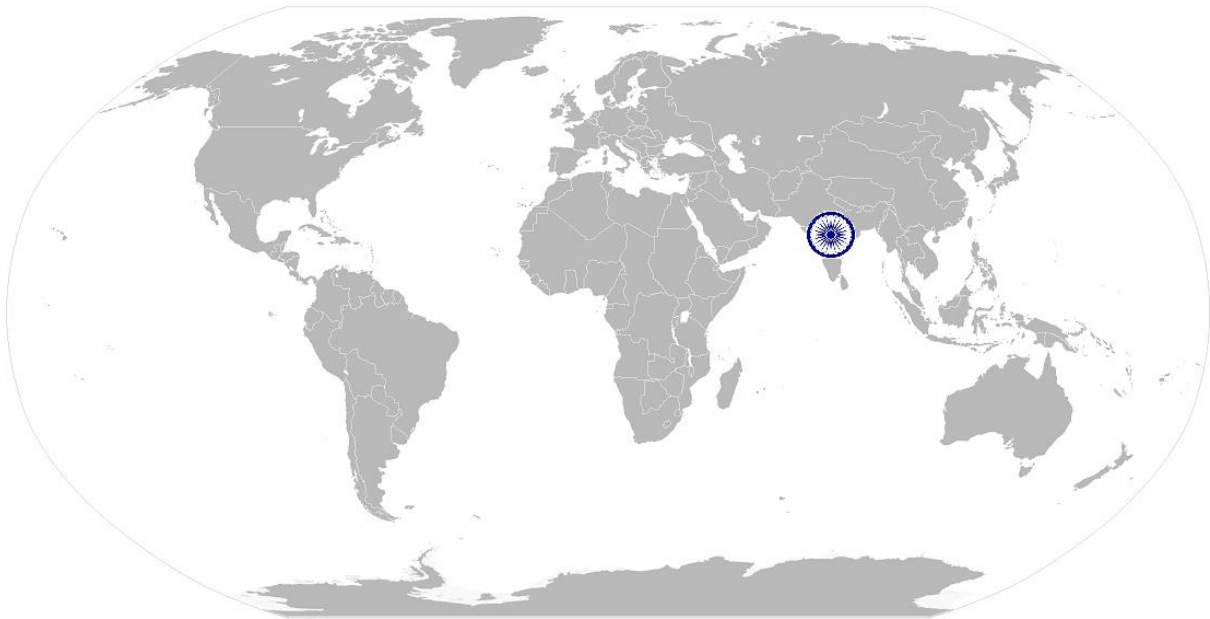
Brief Job Description: The individual provides shine and lustre to the cast jewellery at different stages of its manufacturing such as pre-setting and final polish. The individual works with different types of tools, polishing compounds, soft and hard buffs fixed on high-speed rotating motor bench.

Personal Attributes: The job requires the individual to have: attention to details; good eyesight; steady hands and ability to multi-task in a process driven team for long hours in sitting position. A polisher is expected to have integrity in dealing with high value jewellery.

Qualifications Pack Code	G&J/Q3001		
Job Role	Jewellery Polisher		
Credits(NVEQF/NVQF/NSQF)	TBD	Version number	1.0
Sector	Gems & Jewellery	Drafted on	29/05/13
Sub-sector	Cast and Diamond-set Jewellery	Last reviewed on	11/07/13
Occupation	Polishing	Next review date	15/06/15

Job Role	Jewellery Polisher
Role Description	Providing a clean, shining and finished jewellery at different stages of its making
NVEQF/NVQF level	3
Minimum Educational Qualifications	Preferably 10 th Standard Passed
Maximum Educational Qualifications	
Training	Not applicable
Experience	Not applicable
Applicable National Occupational Standards (NOS)	<p>Compulsory:</p> <ol style="list-style-type: none"> G&J/N3001 Polish and clean the cast jewellery G&J/N9901 Respect and maintain IPR G&J/N9902 Coordinate with others G&J/N9905 Maintain occupational health and safety <p>Optional: Not applicable</p>
Performance Criteria	As described in the relevant OS units

National Occupational Standard



Overview

Polishing and cleaning is a critical step in finishing the cast jewellery. The objective of this unit is to make the jewellery ready for: diamond and stone setting at the pre-setting polishing stage and for plating in final polishing stage. At this stage the jewellery must attain the final finish as per design in terms of look and lustre.

G&J/N3001

Polish and clean the cast jewellery

National Occupational Standard

Unit Code	G&J/N3001
Unit Title (Task)	Polish and clean the cast jewellery
Description	This OS unit is about finishing the cast jewellery to make it ready for stone-setting or plating
Scope	<p>This unit/task covers the following:</p> <p>Polish the cast jewellery received after filing</p> <ul style="list-style-type: none"> • understand design requirements for portions to be polished and the finish to be achieved such as matt, shiny, smooth • use high speed motor buffing with different types of buffs along with polishing compound to remove filing defects • use lapping or buffing machine to give shine to flat surface in a jewellery piece • apply lustre to cut and give a smooth finish to metal • apply rouge to achieve glossy and shiny finish • clean the jewellery pieces in ultrasonic machine (hot water) in case of jewellery set with emerald and pearl need to be cleaned in ultrasonic machine (cold water) to remove all the polishing compound and other dust • use vacuum bench to avoid inhaling and collect dust for recovery of precious metal <p>Control precious metal loss and damage to stones</p> <ul style="list-style-type: none"> • collect metal dispersed during the day (dust and fragments) • report metal losses via documentation as per company policy • tally account as per allowed standards for the design • conduct regular and controlled environment cleaning for collection of metal dust • minimise metal loss below the prescribed limits • report any incidents of high precious metal loss • suggest improvements in order to reduce precious metal loss • wash hands at the specified wash basin as per the company's policy • minimise or avoid damage to the diamonds and precious stones <p>Keep the work environment clean and organised</p> <ul style="list-style-type: none"> • keep the work station, machine and tools clean • keep all the tools in an organised manner • do not litter or spit on work premises <p>Detect product defects</p> <ul style="list-style-type: none"> • inform supervisor if product has arrived with casting defect • understand the type of defect, assess if polishing unit can rectify the defect or deposit back to the supervisor <p>Check quality</p> <ul style="list-style-type: none"> • check polished piece visually in order to detect defects such as impurities, grease, marks, uneven finish and rough edges • improve output of polishing while maintaining design quality and precious metal loss standards • re-polish product returned from QC


G&J/N3001

Polish and clean the cast jewellery

Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Polishing and cleaning	To be competent, the user/individual on the job must be able to: PC1. provide finish to jewellery piece as per design requirement PC2. minimise precious-metal loss and damage to the stones in case of final polishing PC3. minimise accidents while buffing and using high speed motors
Productivity	To be competent, the user/individual on the job must be able to: PC4. deliver in time product to the next stage in the process flow PC5. polish number of pieces as per target deliverable as specified by the company
Quality of output	To be competent, the user/individual on the job must be able to: PC6. appropriately finish surfaces as per design requirement PC7. produce quality control approved jewellery piece
Knowledge and Understanding (K)	
A. Organizational Context	The user/individual on the job needs to know and understand: KA1. company's policies on: acceptable limits of gold loss, incentives, quality and delivery standards, safety and hazards, integrity and IPR, personnel management and dress code KA2. work flow involved in jewellery manufacturing process of the company KA3. importance of the individual's role in the workflow KA4. reporting structure
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. uses of different types of buffers for different purposes and end results KB2. potential work hazards while using chemicals, high speed rotating motors, lapping and ultrasonic machines
Skills (S) [Optional]	
A. Core Skills/ Generic Skills	Basic reading and writing skills
	The user/ individual on the job needs to know and understand how to: SA1. to read notes and job sheet SA2. read company rules and compliance documents required to complete the work
	Teamwork and multi-tasking
	The user/individual on the job needs to know and understand how to: SA3. share work load as required SA4. deliver jewellery piece to next work process on time SA5. take feedback from co-workers and supervisor and share knowledge with them

G&J/N3001

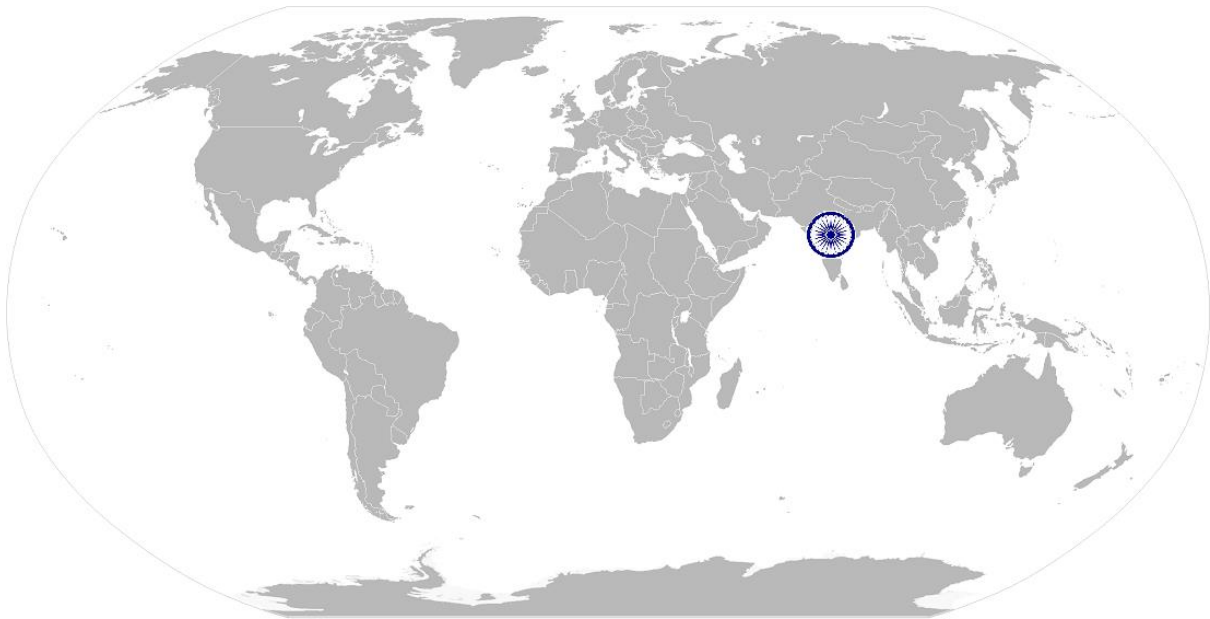
Polish and clean the cast jewellery

B. Professional Skills	Reading design
	The user/individual on the job needs to know and understand how to: SB1. provide finishing and shine according to design and style of the jewellery piece
	Using tools and machines
	The user/individual on the job needs to know and understand how to: SB2. work with metals including how to clean and shine the surface of the jewellery piece SB3. use following key tools, machines and consumables for polishing: <ul style="list-style-type: none"> • chemicals • rexene or leather sheets • work bench or table • small wooden plates • glass wool • magnet pins • cleaning detergent or shampoo • different types of buffs such as cloth, wool, leather, satin finish buffs • lustre rouge • work holders • hand pieces • flex shaft • gauges • magnifiers • high speed motor • lapping/ buffing machine and buffs • ultrasonic machine • vacuum bench 
	SB4. maintain, repair and customise tools SB5. work in a safe environment, i.e., without injuries
	The user/individual on the job needs to know and understand: SB6. different types of buffs and technique to appropriately fix in the high speed motors and use it SB7. how to avoid overheating
Reflective thinking	
The user/individual on the job needs to know and understand how to: SB8. use correct posture while performing the job of the polishing SB9. reduce precious metal loss SB10. place the tools on the working bench for effective work management SB11. improve productivity and increase efficiency based on past working experience SB12. effectively use the polishing and cleaning processes to improve the quality and finishing of the jewellery piece	

G&J/N3001

Polish and clean the cast jewellery

	Critical thinking
	The user/individual on the job needs to know and understand how to: SB13. anticipate process disruption and reasons for delay

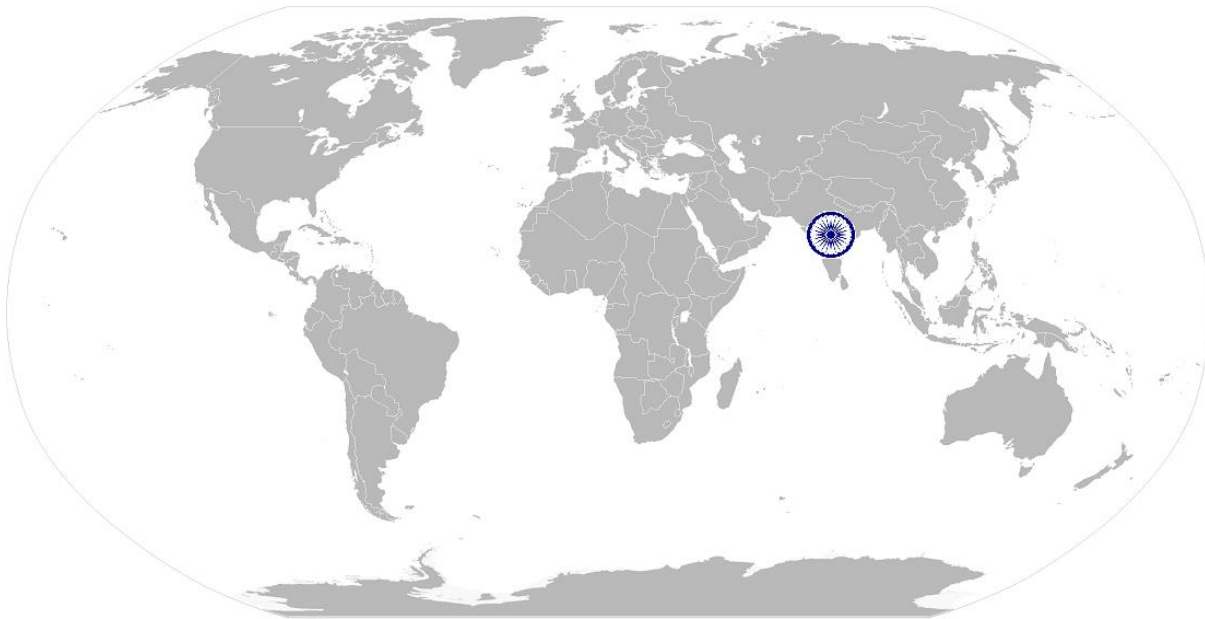


G&J/N3001

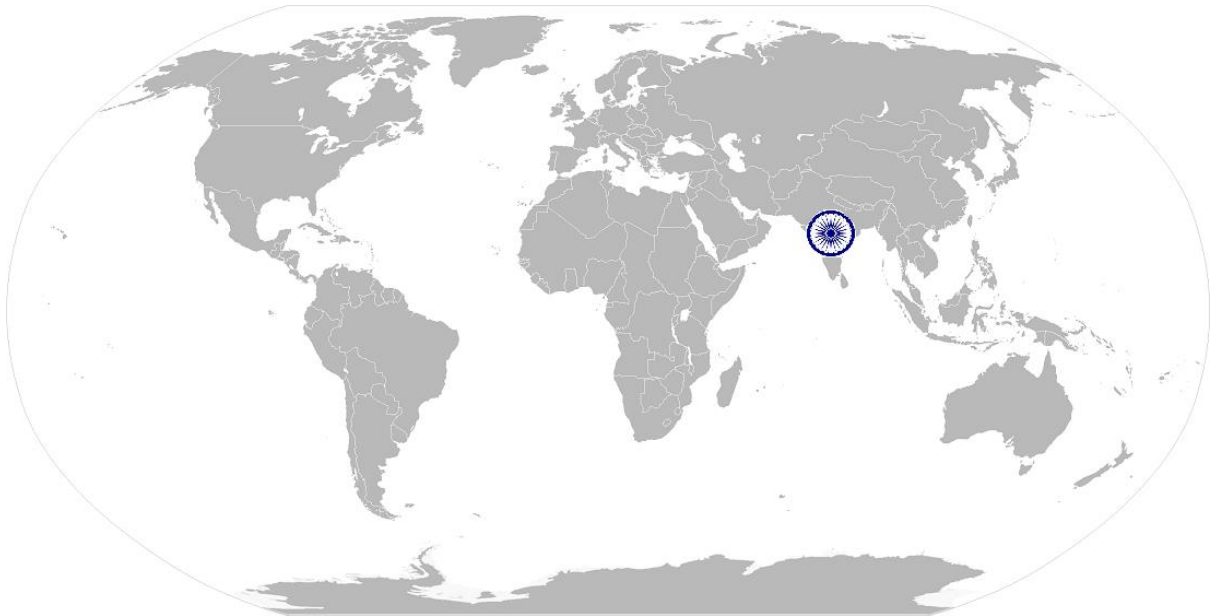
Polish and clean the cast jewellery

NOS Version Control

NOS Code	G&J/N3001		
Credits(NVEQF/NVQF/NSQF)	TBD	Version number	1.0
Industry	Gems & Jewellery	Drafted on	29/05/13
Industry Sub-sector	Cast and Diamond-set Jewellery	Last reviewed on	11/07/13
Occupation	Polishing	Next review date	15/06/15



National Occupational Standard



Overview

This unit is about respecting intellectual property rights of the company's products and designs and avoiding infringement on IPR of other companies.

G&J/N9901

Respect and maintain IPR

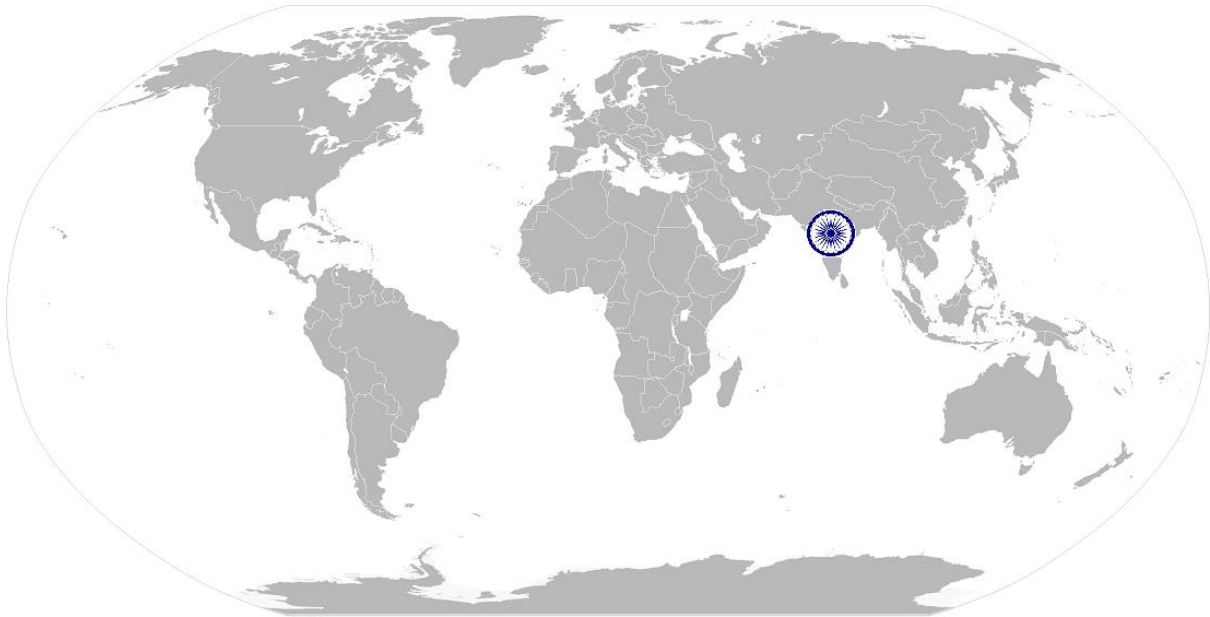
National Occupational Standard

Unit Code	G&J /N9901
Unit Title (Task)	Maintain IPR of company and respect IPR of other companies
Description	This OS unit is about protecting company's IPR and avoiding infringement to IPR of other companies
Scope	<p>This unit/task covers the following:</p> <p>Protect company's Intellectual Property Rights (IPR)</p> <ul style="list-style-type: none"> • prevent leak of new designs to competitors by reporting on time • be aware of any of company's product or design patents • report IPR violations observed in the market, to supervisor or company heads <p>Avoid infringement to IPR of other companies</p> <ul style="list-style-type: none"> • read copyright clause of the material published on the internet and any other printed material • consult supervisor or senior management when in doubt about using publicly available information • report any infringement observed in the company
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Respecting and Maintaining IPR	To be competent, the user/individual on the job must: PC1. be able to spot plagiarism and report PC2. be aware of patents and IPR PC3. not be involved in IPR violations
Knowledge and Understanding (K)	
A. Organizational Context	The user/individual on the job needs to know and understand: KA1. company's policies on IPR and plagiarism KA2. reporting structure KA3. company's unique product range
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. patents and IPR laws KB2. how IPR protection is important for competitiveness of a company
Skills (S) [Optional]	
A. Core Skills/ Generic Skills	Communication skills
	The user/ individual on the job needs to know and understand how to: SA1. effectively communicate any observed IPR violations or order leaks

G&J/N9901

Respect and maintain IPR

B. Professional Skills	Decision making
	The user/individual on the job needs to know and understand how to: SB1. report potential sources of violations
	Reflective thinking
	The user/individual on the job needs to know and understand to: SB2. learn from past mistakes and report IPR violations on time
	Critical thinking
	The user/individual on the job needs to know and understand how to: SB3. spot signs of violations and alert authorities in time

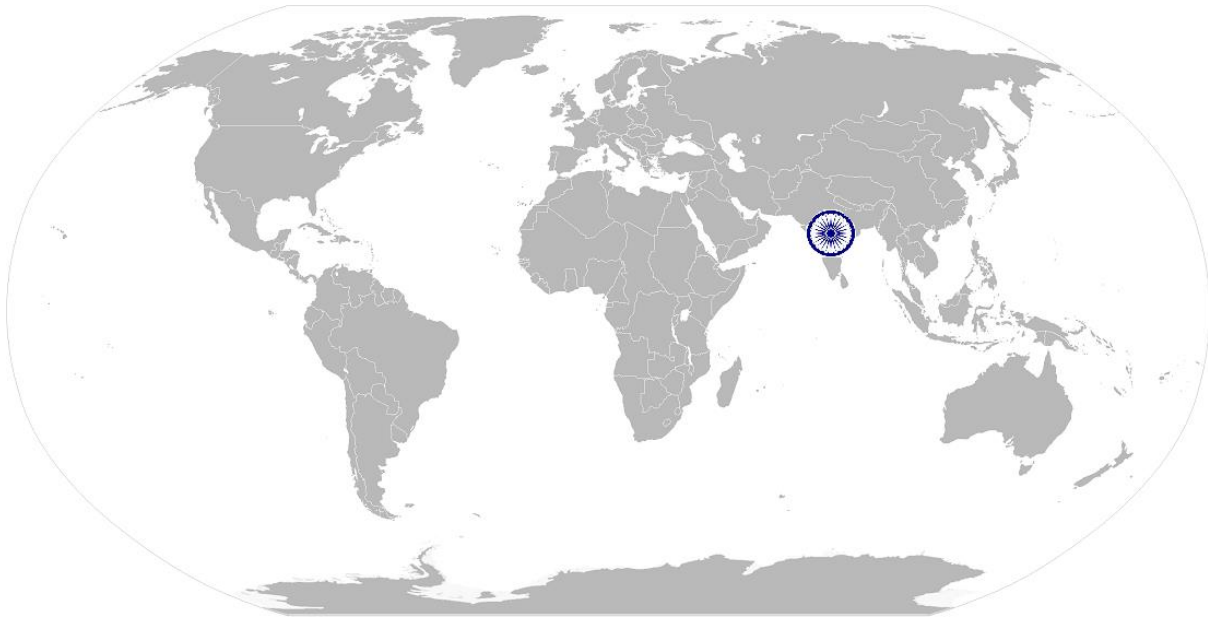


G&J/N9901

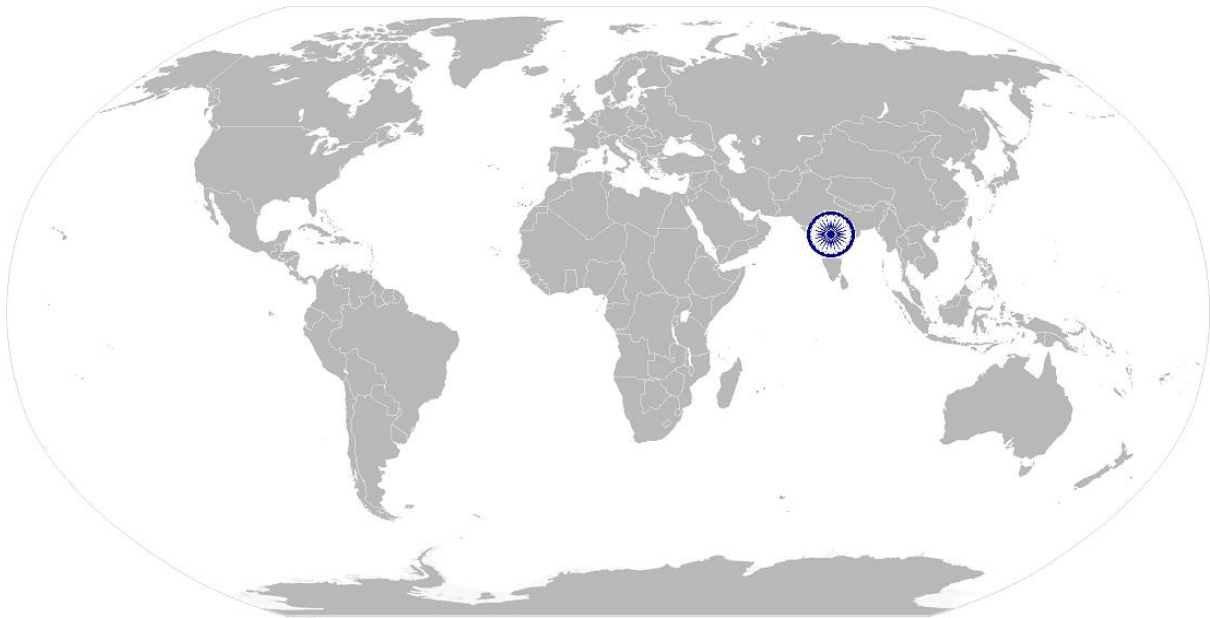
Respect and maintain IPR

NOS Version Control

NOS Code	G&J/N9901		
Credits(NVEQF/NVQF/NSQF)	TBD	Version number	1.0
Industry	Gems & Jewellery	Drafted on	29/05/13
Industry Sub-sector	Cast and Diamond-set Jewellery	Last reviewed on	11/07/13
		Next review date	15/06/15



National Occupational Standard



Overview

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

G&J/N9902

Coordinate with others

National Occupational Standard

Unit Code	G&J/N9902
Unit Title (Task)	Interact with colleagues and seniors
Description	This OS unit is about communicating with colleagues and seniors in order to achieve smooth and hazard-free work flow
Scope	<p>This unit/task covers the following:</p> <p>Interact with supervisor</p> <ul style="list-style-type: none"> • 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 <p>Interact with colleagues within and outside the department</p> <ul style="list-style-type: none"> • 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 and 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 supervisor	To be competent, the user/individual on the job must be able to: PC1. understand the work output requirements PC2. comply with company policy and rule PC3. deliver quality work on time as required by reporting any anticipated reasons for delays
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. be able to resolve conflicts PC6. learn how to multi-task relevant activities
Knowledge and Understanding (K)	
A. Organizational Context	The user/individual on the job needs to know and understand: KA1. company's policies on: preferred language of communication, reporting and escalation policy, quality delivery standards, and personnel management KA2. reporting structure
B. Technical Knowledge	The user/individual on the job needs to know and understand how to: KB1. communicate effectively KB2. build team coordination

G&J/N9902

Coordinate with others

Skills (S) [Optional]	
A. Core Skills/ Generic Skills	Communication skills
	The individual on the job needs to know and understand how to: SA1. read and write preferred language of communication as prescribed by the company SA2. read job sheets and interpret technical details mentioned in the jobsheet
B. Professional Skills	Decision making
	The individual on the job needs to know and understand: SB1. how to spot and communicate potential areas of disruptions to work process and report the same SB2. when to report to supervisor and when to deal with a colleague individually, depending on the type of concern
	Reflective thinking
	The individual on the job needs to know and understand how to: SB3. improve work processes by interacting with others and adopting best practices
	Critical thinking
The individual on the job needs know and understand how to: SB4. spot process disruptions and delays and report and communicate with solutions	

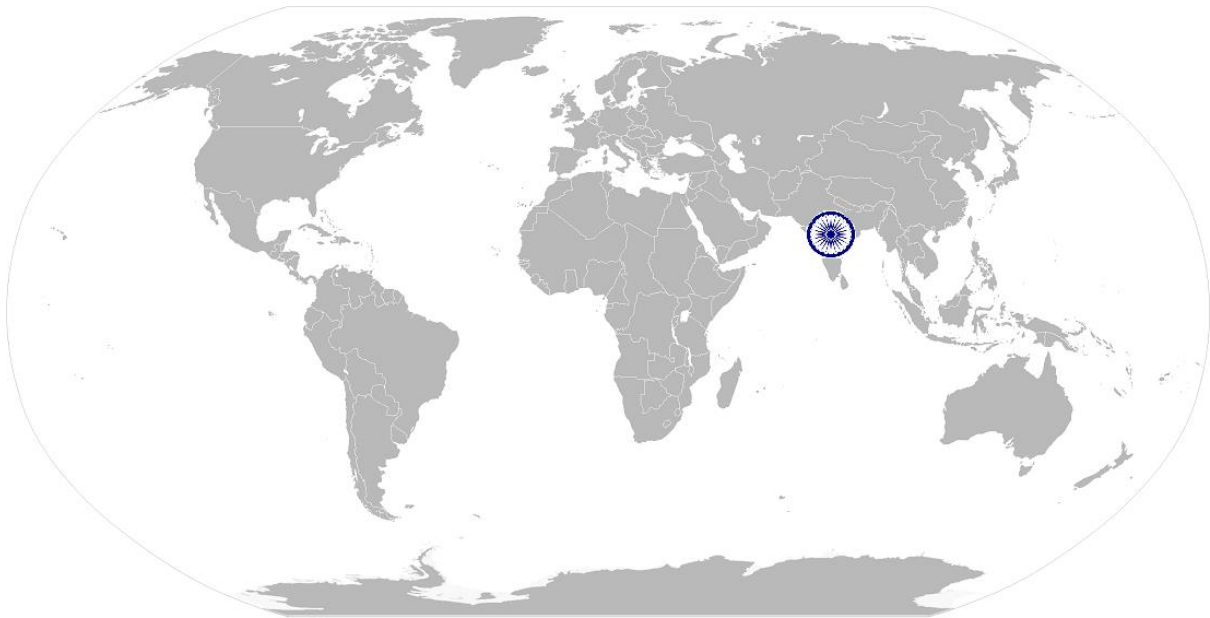


G&J/N9902

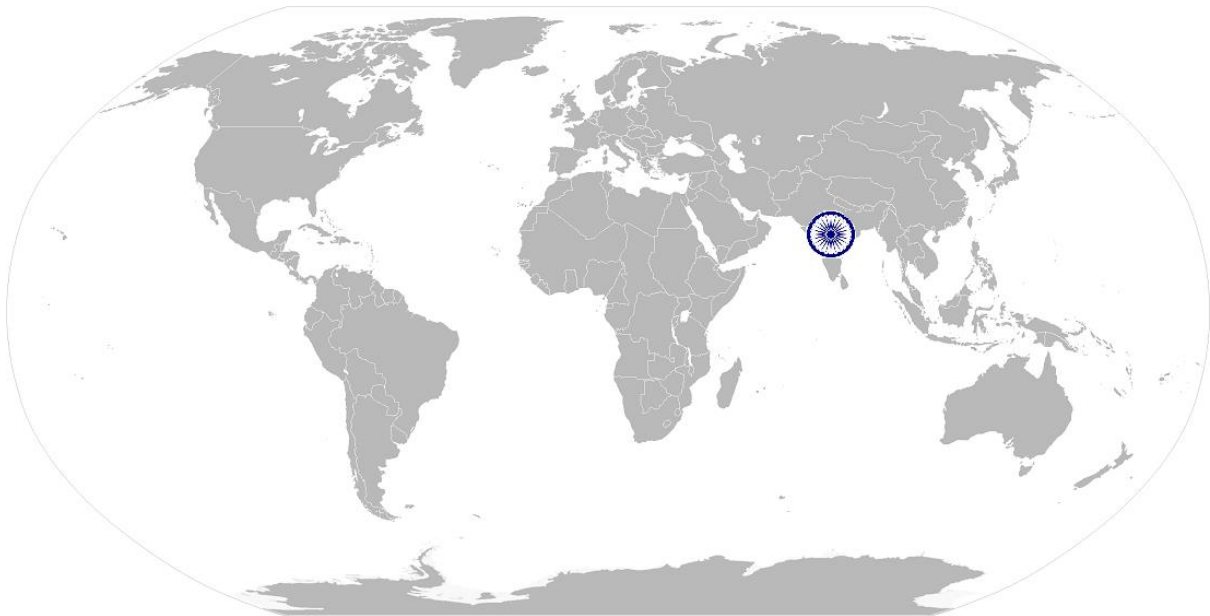
Coordinate with others

NOS Version Control

NOS Code	G&J /N9902		
Credits(NVEQF/NVQF/NSQF)	TBD	Version number	1.0
Industry	Gems & Jewellery	Drafted on	29/05/13
Industry Sub-sector	Cast and diamond-set jewellery	Last reviewed on	11/07/13
		Next review date	15/06/15



National Occupational Standard



Overview

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

G&J/N9905

Maintain occupational health and safety

National Occupational Standard

Unit Code	G&J /N9905
Unit Title (Task)	Maintain occupational health and safety
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 occupational health and safety
Scope	<p>This unit/task covers the following:</p> <p>Understand potential sources of accidents</p> <ul style="list-style-type: none"> to avoid accidents related to use of potentially dangerous chemicals, sharp tools, hazards from machines and such as heating lamps <p>Use safety gear to avoid accidents</p> <ul style="list-style-type: none"> wear safety gear such as goggles, mask, gloves, ear plugs <p>Actively participate in the health and safety awareness campaigns</p> <ul style="list-style-type: none"> attend fire drills organised by the company or industrial zone learn first aid procedure be alert about designated assembly area in the event of an emergency read and understand the evacuation and emergency procedures <p>Communicate to reporting supervisor about:</p> <ul style="list-style-type: none"> process flow improvements that can reduce anticipated 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
Communicating potential accident points	To be competent, the user/individual on the job must be able to: PC1. spot and report potential hazards on time PC2. follow company policy and rules regarding use of hazardous materials PC3. attend and actively participate in the health and safety campaigns organised by the company
Using safety gear	To be competent, the user/individual on the job must be able to: PC4. use or wear safety gear as per the rules of the company
Knowledge and Understanding (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. reporting structure
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. how different chemicals react and what could be the danger from them KB2. how to use machines and tools without suffering bodily harm

G&J/N9905

Maintain occupational health and safety

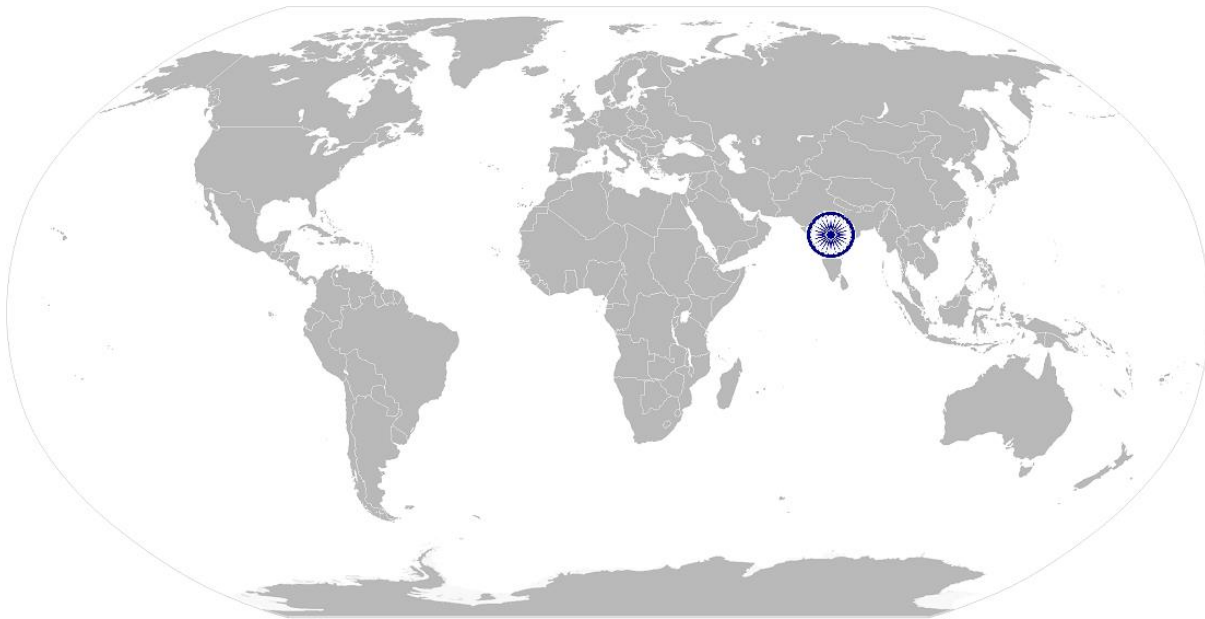
Skills (S) [Optional]	
A. Core Skills/ Generic Skills	Communication skills
	The individual on the job needs to know and understand how to: SA1. effectively communicate the danger
	Organising skills
	The individual on the job needs to know and understand how to: SA2. keep all the tools in an organised manner so as to avoid accidents SA3. keep the work environment safe and clean
B. Professional Skills	Decision making
	The individual on the job needs to know and understand how to: SB1. report potential sources of danger SB2. follow prescribed procedure in the event of an accident SB3. wear appropriate safety gear to avoid an accident
	Reflective thinking
	The individual on the job needs to know and understand to: SB4. learn from past mistakes regarding use of hazardous machines or chemicals
	Critical thinking
	The individual on the job needs to know and understand how to: SB5. spot dangers
Decision making	
	The individual on the job needs to know and understand how to: SB6. report potential sources of danger SB7. follow prescribed procedure in the event of an accident SB8. wear appropriate safety gear to avoid an accident

G&J/N9905

Maintain occupational health and safety

NOS Version Control

NOS Code	G&J/N9905		
Credits(NVEQF/NVQF/NSQF)	TBD	Version number	1.0
Industry	Gems & Jewellery	Drafted on	29/05/13
Industry Sub-sector	Cast and diamond-set jewellery	Last reviewed on	11/07/13
		Next review date	15/06/15



Definitions

Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defied 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

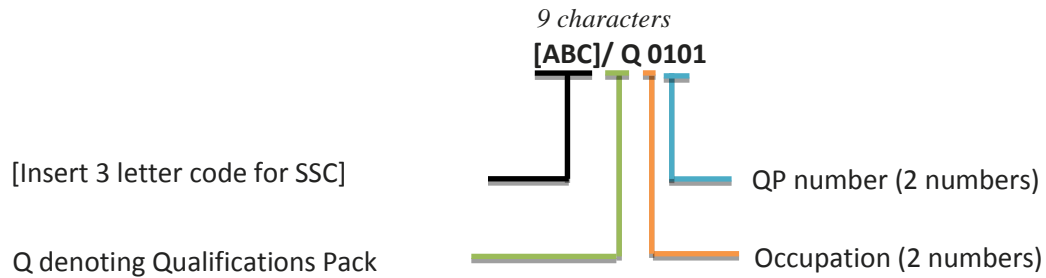
Acronyms

	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
Mohs	Mohs scale of mineral hardness
NOS	National Occupational Standard(s)
NSQF	National Qualifications Framework
NVEQF	National Vocational Education Qualifications Framework
NVQF	National Vocational Qualifications Framework
QP	Qualifications Pack

Annexure

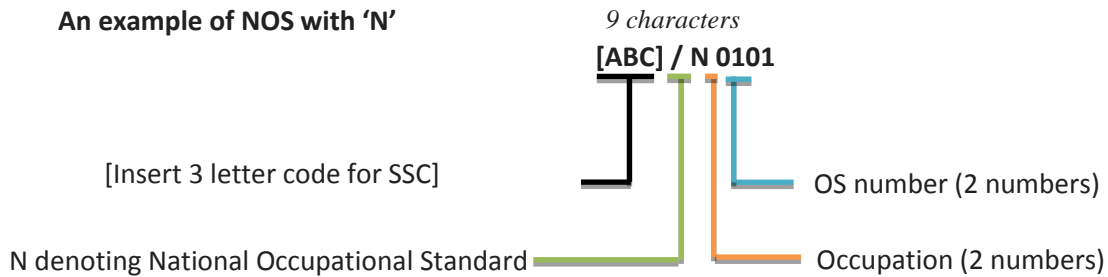
Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard

An example of NOS with 'N'



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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 QP or NOS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Polisher

Qualification Pack G&J/Q3001

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/N3001 Polish and clean the cast jewellery	PC1. provide finish to jewellery piece as per design requirement	75	9	2	7
	PC2. minimise precious-metal loss and damage to the stones in case of final polishing		7	2	5
	PC3. minimise accidents while buffing and using high speed motors		5	0	5
	PC4. deliver in time product to the next stage in the process flow		4	0	4
	PC5. polish number of pieces as per target deliverable as specified by the company		4	0	4
	PC6. appropriately finish surfaces as per design requirement		24	4	20

	PC7. produce quality control approved jewellery piece		22	2	20
		Total	75	10	65
2.G&J/N9901 Respect and maintain IPR	PC1. be able to spot plagiarism and report	9	3	2	1
	PC2. be aware of patents and IPR		4	1	3
	PC3. not be involved in IPR violations		2	1	1
		Total	9	4	5
3. G&J/N9902 Coordinate with others	PC1. Understand the work output requirements	8	2	1	1
	PC2. Understand company policy and rule		1	0	1
	PC3. Deliver quality work on time as required by reporting any anticipated reasons for delays		1	0	1
	PC4. Put team over individual goals		1	1	0
	PC5. be able to resolve conflicts		1	0	1
	PC6. learn how to multi-task relevant activities		2	1	1
		Total	8	3	5
4. G&J/N9905 Maintain occupational health and safety	PC1. Spot and report potential hazards on time	8	2	1	1
	PC2. Follow company policy and rules regarding use of hazardous materials		2	0	2
	PC3. attend and actively participate in the health and safety campaigns organised by the company		2	1	1
	PC4. Use or wear safety gear as per the rules of the company		2	1	1
		Total	8	3	5