



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR GEMS & JEWELLERY INDUSTRY



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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
- 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-Metal Setter (Advanced)

SECTOR: GEMS & JEWELLERY

SUB-SECTOR: Cast and Diamond-Set Jewellery

OCCUPATION: Metal setting

REFERENCE ID: G&J/Q3102

ALIGNED TO: NCO-2004/7313.30

Metal setter (advanced): Metal setter is also known as 'Setter' in Indian jewellery making industry. In the cast and diamond-set jewellery manufacturing, metal setting (advance) is considered a skilled job.

Brief Job Description: The individual works with numerous hand and machine tools to set diamond and gemstones as per design, and is responsible for delivering: levelled, damage-free and secured setting of stones while maintaining its brilliance.

Personal Attributes: The job requires the individual to have: attention to details; good eyesight; steady hands and ability to work in a process driven team for long hours in sitting position. The individual is expected to have integrity in dealing with precious metal, diamonds and gemstones.





Qualifications Pack Code	G&J/Q3102		
Job Role	Metal setter (advanced)		
Credits(NSQF)	TBD	Version number	1.0
Sector	Gems & Jewellery	Drafted on	29/05/13
Sub-sector	Cast and Diamond-set Jewellery	Last reviewed on	13/08/14
Occupation	Metal Setting	Next review date	12/08/15

Job Role	Metal setter (advanced) Also called Setter	
Role Description	Setting diamonds of different size and shapes in gold and other precious metal jewellery frame as per design; rectifying defects in the casted metal; and minimising damage to gemstones or jewellery	
NSQF level	4	
Minimum Educational Qualifications Maximum Educational Qualifications	Preferably 10 th Standard passed	
Training	Metal setting (basic)	
Experience	Not applicable	
Applicable National Occupational Standards (NOS)	Compulsory: 1. G&J/N3101 Set diamonds and gemstones in precious metal jewellery piece 2. G&J/N3102 Set diamonds and gemstones using advanced techniques 3. G&J/N9901 Respect and maintain IPR 4. G&J/N9902 Coordinate with others 5. G&J/N9905 Maintain occupational health and safety Optional: Not applicable	
Performance Criteria	As described in the relevant OS units	

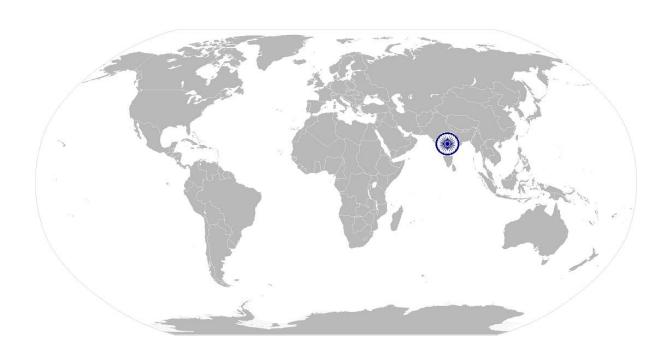






Set diamonds and gemstones in precious metal jewellery piece

National Occupational Standard



Overview

This unit represents an important post-casting process of the cast and diamond-set jewellery manufacturing that of placing and fixing diamonds and gemstones into gold or other precious metal jewellery frame by hand. The key outcomes required for metal setting are: to hold a stone securely as well as maintain its brilliance.







G&J/N3101 Set diamond and gemstones in precious metal jewellery piece

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ch, damaged stones or

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

Element	Performance Criteria
Preparing jewellery frame for setting	To be competent, the user/individual on the job must be able to: PC1. understand design specifications and information given in the job sheet in terms of type of jewellery, diamonds and gemstones required and their weight PC2. match the size and shape of the diamonds and gemstones received from supervisor against the job sheet PC3. assess the type of setting required, e.g., prong, channel, bead, flush, bezel, pave, pre-cut, invisible, micro/gold pave, etc. as per design of the jewellery and stone shape PC4. set jewellery frame on lac plate or a ring clamp or a holding plate PC5. check the fit and seat the jewellery frame
Metal setting	To be competent, the user/individual on the job must be able to: PC6. use burrs to grind the seat as per design PC7. place the stone into the collet PC8. press and level the stones with the pusher PC9. tighten metal for secure setting of stone file edges to finish the prongs or channel borders as per design PC10. file and smoothen edges to avoid snagging to fabric PC11. place or fix stone as per design requirement PC12. secure stone in a jewellery piece without any defect or damage, with brilliance intact PC13. file edges ensuring smooth surface and utility of wearing
Controlling precious metal and stone loss; and achieving	To be competent, the user/individual on the job must be able to: PC14. collect metal dispersed during the day (dust and fragments) PC15. report metal losses via documentation as per company policy







G&J/N3101 Se	et diamonds and gemstones in precious metal jewellery piece		
productivity	PC16. tally account as per allowed standards of loss as per the company policy		
	PC17. conduct regular and controlled environment cleaning for collection of metal		
	dust		
	PC18. minimise metal loss as per prescribed limits of the company		
	PC19. report any incidents of over prescribed limit for precious metal loss		
	PC20. suggest improvements in order to reduce precious metal loss		
	PC21. handle diamonds and precious stones with care		
	PC22. minimise or avoid damage to the diamonds and precious stones		
	PC23. wash hands at the specified wash basin as per the company's policy		
	PC24. maintain precious metal and stone loss within prescribed limit for the design		
	PC25. complete the number of settings as per the target		
Checking quality of	To be competent, the user/individual on the job must be able to:		
output	PC26. ensure finishing of the prongs or channels and surface of the cast jewellery		
	frame as per design		
	PC27. ensure levelling of the stone set at the level as per design		
	PC28. ensure no diamonds or gemstones are loose		
	PC29. rework on any suggested QC correction or setting defects		
	PC30. after receiving QC approval, forward metal frame for final polishing		
	PC31. deliver on time, the metal-set jewellery for final polish and plating or for the		
	further processing as per work flow		
	PC32. accurately level the stones		
	PC33. set the stones firmly		
	PC34. achieve setting finish as per design		
	PC35. keep the work station, machine and tools clean		
	PC36. keep all the tools in an organised manner		
	PC37. do not litter or spit on work premises		
Knowledge and Unders	standing (K)		
A. Organizational	The user/individual on the job needs to know and understand:		
Context	KA1. company's policies on: acceptable limits of precious metal loss, quality and		
	delivery standards, safety and hazards, integrity and IPR, and personnel		
	management		
	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	The user/individual on the job needs to know and understand:		
Knowledge	KB1. shape, cut, clarity, carat, weight and physical characteristics of the gemstone		
ow.cugc	or diamond to be set		
	KB2. different types of setting styles such as prong, bezel, bead, channel and pre-		
	cut pave		
	KB3. quality standards required as per design or company policy		
	KB4. matching stones with the design		
	KB5. layout of the frame and collet		
	KB6. uses of different types of tools for different end results		
	KB7. sharpening and repair of tools for the job		
	KB8. potential work hazards, particularly, when using hand and machine tools		
	posterior work mazar as, par coaract, when asing hard and machine tools		







G&J/N3101 Set diamonds and gemstones in precious metal jewellery piece

Skills (S) [Optional]			
A. Core Skills/	Basic reading and writing skills		
Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. read and interpret job sheets SA2. read company policies and compliance documents required to complete the work such as security check, timings, and human behaviour Measuring and counting skills The wear find initial and the interpret and waderstand the water.		
	The user/individual on the job needs to know and understand how to: SA3. measure diamond and gemstones size by gauge tool or vernier calipers SA4. count the number of the diamond and gemstones as per job sheet		
	Teamwork		
	The user/individual on the job needs to know and understand how to: SA5. share work load as required SA6. interpret the design instructions given by co-worker and supervisor SA7. share knowledge with the co-workers		
B. Professional Skills	Reading design		
	The user/individual on the job needs to know and understand how to: SB1. read design or actual jewellery sample piece and correlate with job sheet in order to achieve secure setting as well as maintain brilliance of stones Using hand and machine tools The user/individual on the job needs to know and understand how to: SB2. work with metals including how to cut, give shape for preparing a seat for setting diamond and/or gemstones SB3. use following key tools for metal setting: hammers tweezers pliers scribers broaches and pin punches center punches hand-held burnishes and scrapers high-speed steel burrs carbide burrs and drills twist drills burr storage, lubricants and drill gauges mill grain tools prong lifters work holders hand pieces flex shaft/micro motor gauges magnifiers		







G&J/N3101 Set diamonds and gemstones in precious metal jewellery piece

pushers

SB4. maintain, repair and customise tools

SB5. work in a safe environment, i.e., without injuries

Reflective thinking

The user/individual on the job needs to know and understand how to:

SB6. use correct posture for performing the job without injuring body parts

SB7. place the tools on the work bench for effective work management

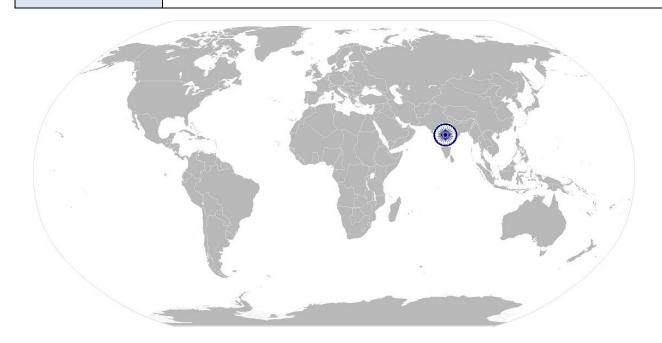
SB8. ensure proper lighting is focussed for performance of the job

SB9. improve productivity

Critical thinking

The user/individual on the job needs to know and understand how to:

SB10. increase efficiency based on past working experience





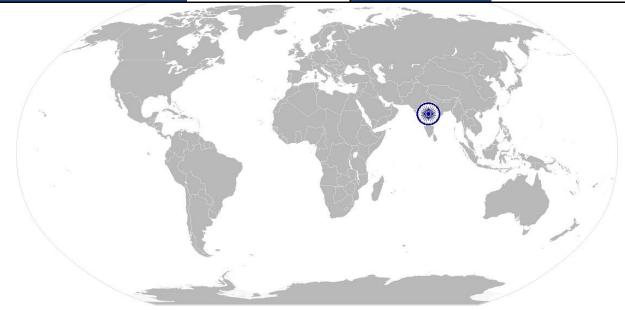




Set diamonds and gemstones in precious metal jewellery piece

NOS Version Control

NOS Code	G&J /N3101		
Credits(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	13/08/14
Occupation	Metal setting	Next review date	12/08/15



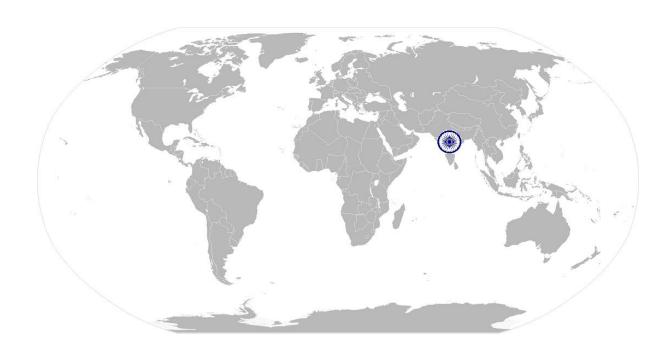






Set diamonds and gemstones using advanced techniques

National Occupational Standard



Overview

This unit represents an important post-casting process of the cast and diamond-set jewellery manufacturing that of placing and fixing diamonds and gemstones into precious metal jewellery frame by hand using advance techniques. The key outcomes required for metal setting are: to hold a stone securely as well as maintain its brilliance.







G&J/N3102 Set diamonds and gemstones using advanced techniques

Unit Code	G&J/N3102
Unit Title (Task)	Set diamonds and gemstones in the precious-metal jewellery piece using advance techniques
Description	This unit is about securely setting diamonds and gemstones in the precious-metal jewellery frames using advance techniques in a way that enhances brilliance of the stones
Scope	 Collect the job sheet and raw materials Prepare jewellery frame for setting Set the stones in the collet Control precious metal loss and damage to stones Send jewellery piece for QC Keep the work environment clean and organised Report problems to supervisor about stone mismatch, damaged stone, casting defects

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

Element	Performance Criteria
Preparing the jewellery frame for setting	To be competent, the user/individual on the job must be able to: PC1. understand design specifications and information given in the job sheet in terms of type of jewellery, diamonds and gemstones required and their weight PC2. match the size and shape of the diamonds and gemstones received from supervisor against the job sheet PC3. assess the type of setting required, e.g., prong, channel, bead, flush, bezel and pre-cut pave as per design of the jewellery and stone shape PC4. set jewellery frame on lac plate or a ring clamp or a holding plate PC5. check the fit and seat the jewellery frame
Advanced metal setting	To be competent, the user/individual on the job must be able to: PC6. use burrs to grind the seat as per design PC7. use the advanced techniques for setting such as pave, micro-pave, invisible, etc.for setting small and tiny diamonds and gemstones (less than 1 mm size) use Pave and Micro Pave setting technique, where a bead is raised and created in between pre-drilled holes. Create these beads in such a way to hold the stones together in a very close and uniform way. PC8. use the advanced techniques for setting such as pave, micro-pave, invisible, etc., to show appearance of uninterrupted and continuous surface for multistone arrangement, use Invisible setting technique. Groove stones just below the girdle and then slid those grooved stones onto metal tracks to hold them in place. select tools, materials and equipment in accordance with the job specifications and type of setting such as pave, micro pave, invisible, etc. PC9. place the stone into the collet







G&J/N3102 Set	diamonds and gemstones using advanced techniques
	PC10. press and level the stones with the pusher PC11. tighten metal for secure setting of stone file edges to finish PC12. file and smoothen edges to avoid snagging to fabric PC13. place or fix stone as per design requirement PC14. secure stone in a jewellery piece without any defect or damage, with brilliance intact PC15. file edges ensuring smooth surface and utility of wearing
Controlling precious	To be competent, the user/individual on the job must be able to:
metal loss and	PC16. collect metal dispersed during the day (dust and fragments)
achieving	PC17. report metal losses via documentation as per company policy
productivity	PC18. tally account as per allowed standards for the design PC19. conduct regular and controlled environment cleaning for collection of metal
	dust
	PC20. minimise metal loss as per prescribed limits of the company
	PC21. report any incidents of over prescribed precious metal loss PC22. suggest improvements in order to reduce precious metal loss
	PC23. handle diamonds and precious stones with care
	PC24. minimise or avoid damage to the diamonds and precious stones
	PC25. wash hands at the specified wash basin as per the company's policy
	PC26. maintain precious metal and stone loss within prescribed limit for the design
	PC27. complete the number of settings as per the target
Achieving quality	To be competent, the user/individual on the job must be able to:
Achieving quality standards	To be competent, the user/individual on the job must be able to: PC28. ensure finishing of the prongs or channels and surface of the cast jewellery frame as per design PC29. ensure levelling of the stone set at the level as per design PC30. ensure no diamonds or gemstones are loose PC31. rework on any suggested QC correction or setting defects PC32. after receiving QC approval, forward metal frame for final polishing PC33. deliver on time, the metal-set jewellery for final polish and plating or for the further processing as per work flow PC34. accurately level the stones PC35. set the stones firmly PC36. achieve setting finish as per design PC37. keep the work station, machine and tools clean PC38. keep all the tools in an organised manner PC39. Avoid litter or spit on work premises
Knowledge and Unders	
B. Organizational Context	The user/individual on the job needs to know and understand: KA5. company's policies on: acceptable limits of precious metal loss, quality and delivery timelines, safety and hazards, integrity and IPR, and personnel management KA6. work flow involved in jewellery manufacturing process of the company KA7. importance of the individual's role in the workflow KA8. reporting structure







Gem & Jewellery Skill Council of India	reactional occupational Standards
G&J/N3102 Set	diamonds and gemstones using advanced techniques
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB9. shape, cut, clarity, carat, weight and physical characteristics of the gemstone or diamond to be set
	KB10. different types of advance setting techniques for diamond and gemstones
	such as pave, micro pave, invisible, etc.
	KB11. quality standards required as per design or company policy
	KB12. matching stones with the design
	KB13. layout of the frame and collet
	KB14. uses of different types of tools for different end results
	KB15. sharpening and repair of tools for the job
	KB16. potential work hazards, particularly, when using hand and machine tools
	Refer potential work nazaras, particularly, when asing halla and machine tools
Skills (S) [Optional]	
C. Core Skills/	Basic reading and writing skills
Generic Skills	The user/individual on the job needs to know and understand how to:
	SA8. read and interpret job sheets
	SA9. read company policies and compliance documents required to complete the
	work such as security check, timings, and human behaviour
	Measuring and counting skills
	The user/individual on the job needs to know and understand how to:
	SA10. measure diamond and gemstones size by gauge tool or vernier calipers
	SA11. count the number of the diamond and gemstones as per job sheet
	Teamwork
	The user/individual on the job needs to know and understand how to:
	SA12. share work load as required
	SA13. interpret the design instructions given by co-worker and supervisor
	SA14. share knowledge with the co-workers
D. Professional Skills	Reading design
	The user/individual on the job needs to know and understand how to:
	SB11. read design or actual jewellery sample piece and correlate with job sheet in
	order to achieve secure setting as well as maintain brilliance of stones
	Using hand and machine tools
	The user/individual on the job needs to know and understand how to:
	SB12. work with metals including how to cut, give shape for preparing a seat for
	setting diamond and/or gemstones
	SB13. use following key tools for metal setting:
	hammers
	• tweezers
	• pliers
	• scribers
	broaches and pin punches
	• center punches

hand-held burnishes and scrapers







G&J/N3102 Set diamonds and gemstones using advanced techniques

- high-speed steel burrs
- carbide burrs and drills
- twist drills
- burr storage, lubricants and drill gauges
- mill grain tools prong lifters
- work holders
- hand pieces
- flex shaft/micro motor
- gauges
- magnifiers and microscope
- pushers
- SB14. maintain, repair and customise tools
- SB15. work in a safe environment, i.e., without injuries

Reflective thinking

The user/individual on the job needs to know and understand how to:

SB16. use correct posture for performing the job without injuring body parts

SB17. place the tools on the work bench for effective work management

SB18. ensure proper lighting is focussed for performance of the job

SB19. improve productivity

Critical thinking

The user/individual on the job needs to know and understand how to: SB20. increase efficiency based on past working experience



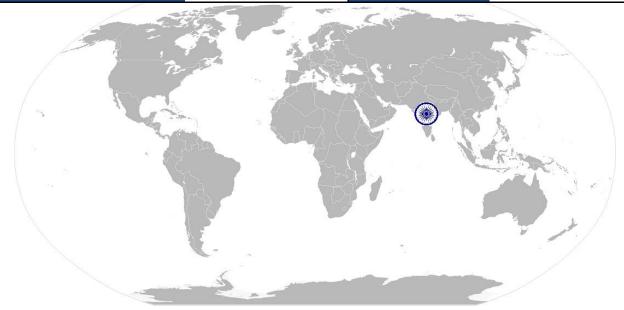




Set diamonds and gemstones using advanced techniques

NOS Version Control

NOS Code	G&J /N3102		
Credits(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	13/08/14
Occupation	Metal setting	Next review date	12/08/15





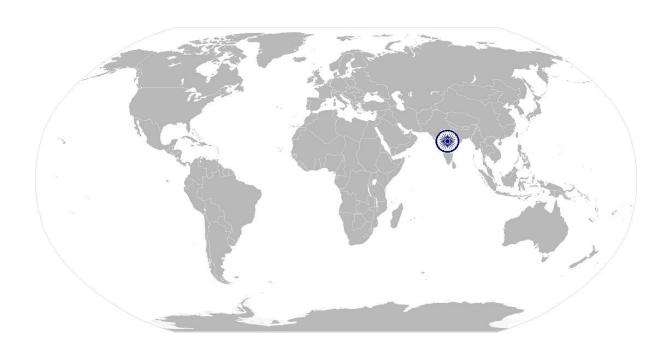






Respect and maintain IPR

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.







Respect and maintain IPR

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	This unit/task covers the following:
	 Protect company's Intellectual Property Rights (IPR) Avoid infringement to IPR of other companies
Performance Criteria(P	C) w.r.t. the Scope
Element	Performance Criteria
Respecting and Maintaining IPR	To be competent, the user/individual on the job must be able to: PC1. prevent leak of new designs to competitors by reporting on time PC2. be aware of any of company's product or design patents PC3. report IPR violations observed in the market, to supervisor or company heads PC4. read copyright clause of the material published on the internet and any other printed material PC5. consult supervisor or senior management when in doubt about using publicly available information PC6. report any infringement observed in the company PC7. spot plagiarism and report PC8. understand significance of patents and IPR PC9. avoid being involved in IPR violations
Knowledge and l	Understanding (K)
C. 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]	
E. Core Skills/	Communication skills
Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. effectively communicate any observed IPR violations or order leaks
F. Professional Skills	Decision making
	The user/individual on the job needs to know and understand how to: SB1. report potential sources of violations

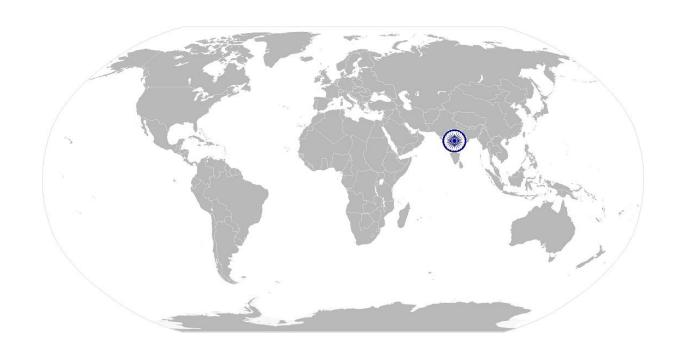






G&J/N9901 Respect and maintain IPR

G&J/N9901	Respect and maintain IF K
	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





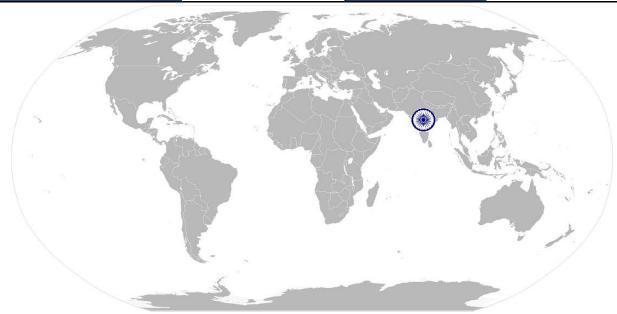




Respect and maintain IPR

NOS Version Control

NOS Code	G&J/N9901		
Credits(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	13/08/14
		Next review date	12/08/15



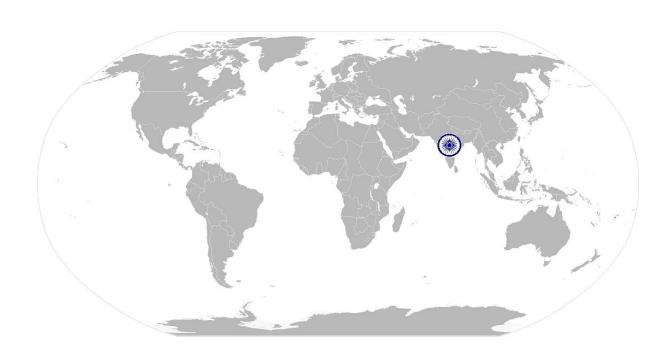






Coordinate with others

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.







Coordinate with others

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	 This unit/task covers the following: Interact with supervisor Interact with colleagues within and outside the department
Performance Criteria(F	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. receive work instructions and raw materials from reporting supervisor PC2. communicate to reporting supervisor about process-flow improvements, product defects received from previous process, repairs and maintenance of tools and machinery as required PC3. communicate any potential hazards or expected process disruptions PC4. handover completed work to supervisor PC5. understand the work output requirements PC6. comply with company policy and rule PC7. 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: PC8. work as a team with colleagues and share work as per their or own work load and skills PC9. work with colleagues of other departments PC10. communicate and discuss work flow related difficulties in order to find solutions with mutual agreement PC11. receive feedback from qc and rework in order to complete work on time PC12. put team over individual goals PC13. be able to resolve conflicts PC14. learn how to multi-task relevant activities
Knowledge and Under	standing (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







Coordinate with others

Skills (S) [Optional]			
A. Core Skills/	Communication skills		
Generic 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		



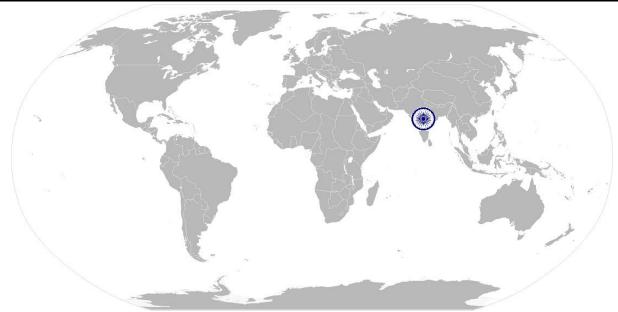




Coordinate with others

NOS Version Control

NOS Code	G&J/N9902		
Credits(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	13/08/14
		Next review date	12/08/15

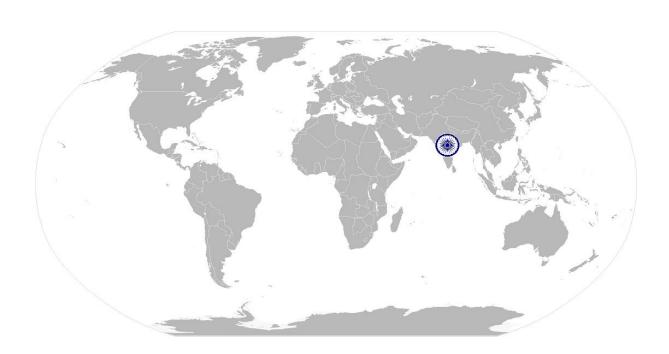






Maintain occupational health and safety

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.







Maintain occupational health and safety

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	This unit/task covers the following:
	Understand potential sources of accidents
	Use safety gear to avoid accidents
	Actively participate in the health and safety awareness campaigns
	Communicate to reporting supervisor about:
Performance Criteria(P	C) w.r.t. the Scope
Element	Performance Criteria
Communicating	To be competent, the user/individual on the job must be able to:
potential accident	PC1. understand potential sources of accidents in order to avoid accidents related
points	to use of potentially dangerous chemicals, sharp tools, hazards from machines
	and other equipment such as heating amps
	PC2. spot and report potential hazards on time PC3. follow company policy and rules regarding use of hazardous materials
	PC4. attend and actively participate in the health and safety campaigns organised
	by the company
	PC5. Process flow improvements that can reduce anticipated or repetitive hazards
	PC6. Mishandling of tools, machines or hazardous materials PC7. Electrical problems that could result in accident
Using safety gear	To be competent, the user/individual on the job must be able to:
combounce, Bom	PC8. use or wear safety gear as per the rules of the company
	PC9. attend fire drills organised by the company or industrial zone
	PC10. learn first aid procedure
	PC11. be alert about designated assembly area in the event of an emergency PC12. read and understand the evacuation and emergency procedures
Knowledge and Unders	
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. company's policies on: safety and hazards and personnel management
	KA2. reporting structure
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. how different chemicals react and what could be the danger from them KB2. how to use machines and tools without suffering bodily harm
	REZ. How to use machines and tools without suffering bodily narm







G&J/N9905 Maintain occupational health and safety

Skills (S) [Optional]		
A. Core Skills/	Communication skills	
Generic 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	
D. Duefeed and Chille	Desirion molting	
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	



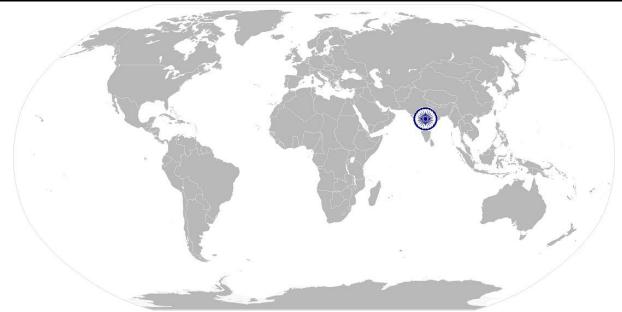




Maintain occupational health and safety

NOS Version Control

NOS Code	G&J/N9905		
Credits(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	13/08/14
		Next review date	12/08/15







Keywords /Terms	Description	
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.	
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.	
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.	
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or an area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.	
Sub-function	Sub-functions are sub-activities essential to fulfil the achieving the objectives of the function.	
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.	
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.	
Performance Criteria	Performance criteria are statements that together specify the standard of performance required when carrying out a task.	
National Occupational Standards (OS)	NOS are occupational standards which apply uniquely in the Indian context.	
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.	
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'	
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.	
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.	
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.	
Knowledge and	Knowledge and understanding are statements which together specify the	
Understanding	technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.	
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.	
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish	





	specific designated responsibilities.
Core Skills/ Generic Skills	Core skills or generic skills are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Keywords /Terms	Description
IPR	Intellectual Property Rights
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

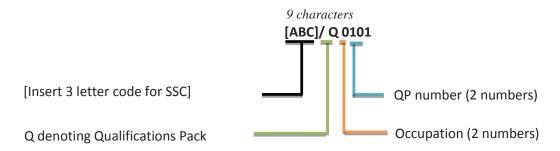




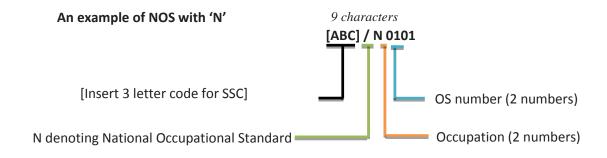
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard



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

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

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





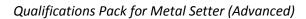


CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Qualification Pack Sector Skill Council Metal Setter (Advanced) Metal Setter (Advanced) GEMS & JEWELLERY

To pass the Assessment, a candidate needs to score 50% in Theory and 70% in Practical

Assessment Strategy		Marks Allocation		
NOS	Elements	Performance Criteria	Theory	Practical
1. G&J/N3101 Set diamonds and gemstones in precious metal jewellery piece	Metal Setting	PC1. place or fix stone as per design requirement	0	6
		PC2. secure stone in a jewellery piece without any defect or damage, with brilliance intact	0	6
		PC3. file edges ensuring smooth surface and utility of wearing	0	6
	Productivity	PC4. maintain precious metal and stone loss within prescribed limit for the design	1	6
		PC5. complete the number of settings as per the target	1	6
	Quality of output	PC6. deliver on time, the metal-set jewellery for final polish and plating or for the further processing as per work flow	0	6
		PC7. accurately level the stones	0	6
		PC8. set the stones firmly	0	4
		PC9. achieve setting finish as per design	1	4
2. G&J/N3102 Set diamonds and	Metal Setting	PC1.select tools, materials and equipment in accordance with the job specifications and type of setting such as pave, micro pave, invisible, etc.	1	4
		PC2. place or fix stone as per design requirement	0	4
		PC3. secure stone in a jewellery piece without any defect or damage, with brilliance intact	0	4
		PC4. file edges ensuring smooth surface and utility of wearing	0	2
gemstones using	Productivity	PC5. maintain precious metal and stone loss within prescribed limit for the design	1	2
advanced Productivity techniques Quality of output		PC6. complete the number of settings as per the target	1	2
	Quality of output	PC7. deliver on time, the metal-set jewellery for final polish and plating or for the further processing as per work flow	1	2
		PC8. accurately level the stones	1	2
		PC9. set the stones firmly	1	2
		PC10. achieve setting finish as per design	1	1
		Sub Total	10	75
3. G&J/N9901 Respect & Maintain IPR	Respecting & Maintaining IPR	PC1. be able to spot plagiarism and report	1	0
		PC2. be aware of patents and IPR	1	0
		PC3. not be involved in IPR violations	1	0
		Sub Total	3	0
4. G&J/N9902		PC1. understand the work output requirements	0	2
Coordinate with	Interaction with superior	PC2. comply with company policy and rule	1	0







		CRITERIA FOR ASSESSMENT OF TRAINEES		
others		PC3. deliver quality work on time as required by reporting any anticipated reasons for delays	0	2
Interactions wit colleagues, custon and/or vendors	Interactions with	PC4. put team over individual goals	1	0
		PC5. be able to resolve conflicts	1	0
	<u> </u>	PC6. learn how to multi-task relevant activities	1	0
	and/or vendors	Sub Total	4	4
Maintain occupational health		PC1. spot and report potential hazards on time	1	0
	Communicating potential	PC2. follow company policy and rules regarding use of hazardous materials	1	0
	accident points	PC3. attend and actively participate in the health and safety campaigns organised by the company	0	0
	Using safety gear	PC4. use or wear safety gear as per the rules of the company	1	1
		Sub Total	3	1
	·	Total	20	80



