

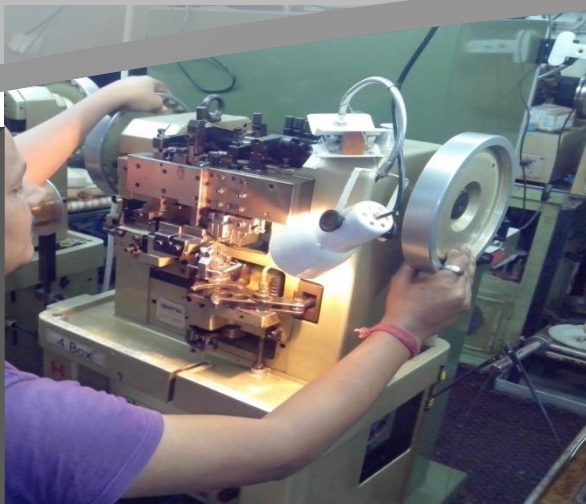
## QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR GEMS & JEWELLERY INDUSTRY

### 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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### Contents

1. Introduction and Contacts.....P1
2. Qualifications Pack ..... P2
3. OS Units.....P3
4. Glossary of Key Terms.....P20
5. Nomenclature of QP & NOS.....P22

### Introduction

#### Qualifications Pack – CNC Machine Jewellery Maker

**SECTOR:** GEMS & JEWELLERY

**SUB-SECTOR:** Cast and Diamonds-Set Jewellery

**OCCUPATION:** Machine-made Jewellery Manufacturing

**REFERENCE ID:** G&J/Q3301

**ALIGNED TO:** NCO-NIL

**CNC Machine Jewellery Maker:** A CNC Machine Jewellery Maker produces jewellery products such as chains, bangles and bracelets by using Computer Numerical Control (CNC) machines.

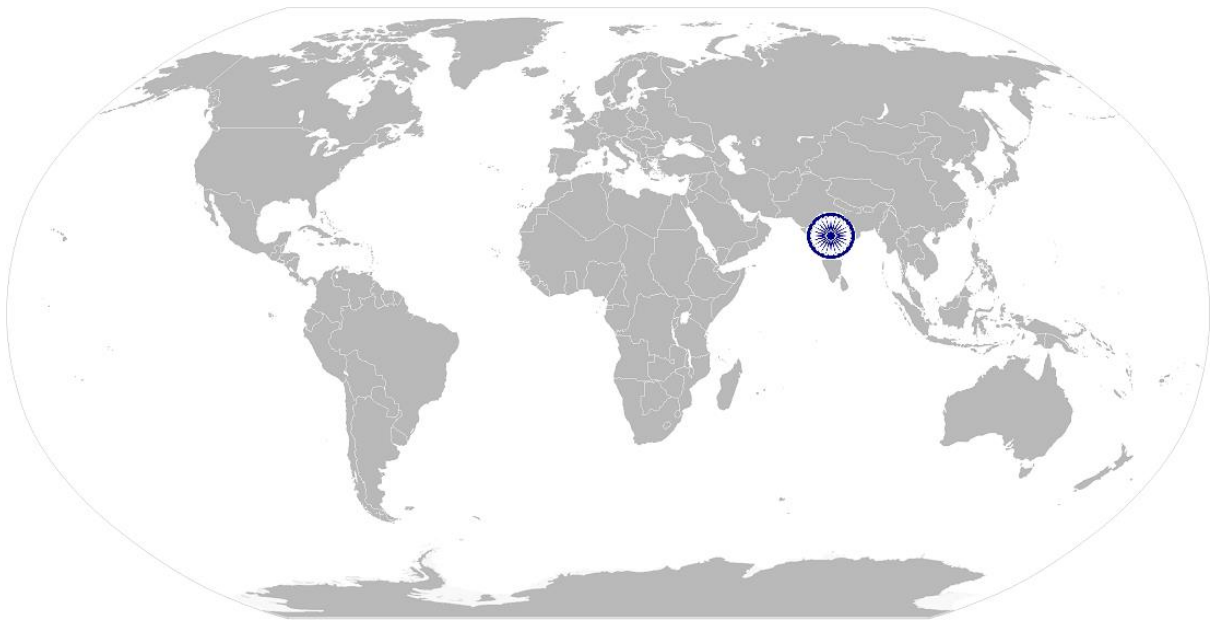
**Brief Job Description:** The individual operated different types of CNC machines which manufacture chains, bangles, bracelets, etc., by setting dies of different sizes and shapes. Individual also solders the components to make the jewellery.

**Personal Attributes:** The job requires the individual to have good mathematical & analytical skills & have quick response, and ability to work in a process driven team. The individual must also have problem solving skills in order to maintain CNC machine and produce defect-free jewellery product.

Qualifications Pack Code	G&J/Q3301		
Job Role	CNC Machine Jewellery Maker		
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	Machine Jewellery Making	Next review date	13/08/15

Job Role	CNC Machine Jewellery Maker
Role Description	Manufacturing chains, bangles, rings , bracelet, etc., by using CNC machines and soldering them to form the jewellery
NSQF level	4
Minimum Educational Qualifications	Minimum: 12 <sup>th</sup> Standard Passed
Maximum Educational Qualifications	
Training	Not applicable
Experience	Not applicable
Applicable National Occupational Standards (NOS)	<p><b>Compulsory:</b></p> <ol style="list-style-type: none"> <li><a href="#">G&amp;J/N3301 Manufacture chains, bangles, bracelets using CNC machine</a></li> <li><a href="#">G&amp;J/N9901 Respect and maintain IPR</a></li> <li><a href="#">G&amp;J/N9902 Coordinate with others</a></li> <li><a href="#">G&amp;J/N9905 Maintain occupational health and safety</a></li> </ol> <p><b>Optional:</b> Not applicable</p>
Performance Criteria	As described in the relevant OS units

# National Occupational Standard



## Overview

This unit is about using CNC machines for manufacturing a range of jewellery products such as chains, bangles, rings and bracelets in large quantity.

**G&J/N3301 Manufacture chains, bangles, bracelets using CNC machines**

<b>Unit Code</b>	<b>G&amp;J/N3301</b>
<b>Unit Title (Task)</b>	<b>Produce chains, bangles and bracelets using CNC machine (Instead of CNC , term “semi-automated &amp; automated machines” should be used)</b>
<b>Description</b>	This OS unit is about using CNC machine for producing a range of jewellery products such as chains, bangles and bracelets in large quantity
<b>Scope</b>	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> <li>• Receive the job sheet and materials</li> <li>• Produce jewellery products</li> <li>• Control gold loss</li> <li>• Report problems in time</li> </ul>
<b>Performance Criteria(PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Producing jewellery using CNC machine</b>	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. collect job sheet for assessing the types of jewellery products and quantities to be manufactured .</p> <p>PC2. assess the various processes like sheet metal working, wire drawing, cutting, machining, welding, soldering etc. to manufacture various category of products.</p> <p>PC3. assess the availability of tools, dies and fixtures required for the manufacturing of the piece as per the drawing/design.</p> <p>PC4. assess the amount of precious metal alloy required</p> <p>PC5. interpret and understand the design requirement in terms of size, weight, shape, design, etc.</p> <p>PC6. repeatedly roll rod or strip of precious metal to finished thickness on a continuous roll machine.</p> <p>PC7. anneal the strip in a continuous strip annealing furnace</p> <p>PC8. cut or slit the strip to the correct width for forming into different types of jewellery products such as hollow/non-hollow chain, bangles, rings or ball chains</p> <p>PC9. make the hollow jewellery</p> <p>PC10. feed the strip through a tube forming machine, the strip being folded as it passes through a series of dies.</p> <p>PC11. fit the machine with an automatic welding device for welding formed strip edges together to produce a tube</p> <p>PC12. equip the machine for introducing a metal core, such as round core for hollow chain.</p> <p>PC13. further draw the tube through a series of dies to get the required size of the tube</p> <p>PC14. roll or draw the strip through special rolls or dies to produce a specific shape or section, for producing bangles and earrings</p> <p>PC15. operate specially designed winding machines to produce pointed and twisted tubes for a specific type of jewellery</p> <p>PC16. cut the length of chain or tube as per specification using cutting machine</p> <p>PC17. bend and solder the strips to form the solid bangle or ring</p>

**G&J/N3301 Manufacture chains, bangles, bracelets using CNC machines**

	<p>PC18. under take various machining operations such as on the Faceting machines using diamond tools to produce textured bangles</p> <p>PC19. assemble links by fitting clasps, hooks, fasteners, etc.</p> <p>PC20. clean and polish the jewellery product</p> <p>PC21. accurately set up and calibrate CNC machine</p> <p>PC22. select appropriate metal core and tools</p> <p>PC23. make durable solders in the joints/links</p> <p>PC24. regularly perform the annealing as per specification until the wire of requisite size is produced</p> <p>PC25. maintain the alignment of seam while winding the precious metal wire in specific shape</p> <p>PC26. select the type, size and thickness of the dies, core and tools according to jewellery design</p> <p>PC27. accurately measure design dimensions of the jewellery products</p> <p>PC28. perform machine operations with the precision at each stage of manufacturing</p>
<b>Controlling gold loss and achieving productivity</b>	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC29. collect gold from CNC or jewellery making machines</p> <p>PC30. tally account as per specified standards</p> <p>PC31. conduct regular and controlled environment cleaning for collection</p> <p>PC32. maintain the proportion of re-use of gold and new as per company standards</p> <p>PC33. minimise the precious metal loss</p> <p>PC34. improve the production rate of machine made jewellery components</p> <p>PC35. timely deliver each type of jewellery</p> <p>PC36. produce number of jewellery products as per target given</p> <p>PC37. report issues related to complexity of designs</p> <p>PC38. inform about faulty equipment and report them to the appropriate person</p> <p>PC39. report on reasons for anticipated delays that may adversely affect delivery</p>
<b>Checking quality</b>	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC40. check quality of the finished jewellery product against design</p> <p>PC41. produce quality approved jewellery products as per the design and instructions given by production manager</p> <p>PC42. minimise productions disruptions because of machine operational issues</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. company's policies on: quality, incentives, delivery standards, safety and hazards, integrity and IPR, personnel management and dress code</p> <p>KA2. importance of the individual's role in the workflow</p> <p>KA3. reporting structure</p>
<b>B. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. use of machines to cover operations such as strip cutting, tube making, seam welding, drawing, tube patterning (knurling), annealing, tube head hammering, tube twisting, tube cutting and tube winding, other CNC machines, etc.</p> <p>KB2. different type of jewellery products: rings, bracelets, pendants, necklace,</p>



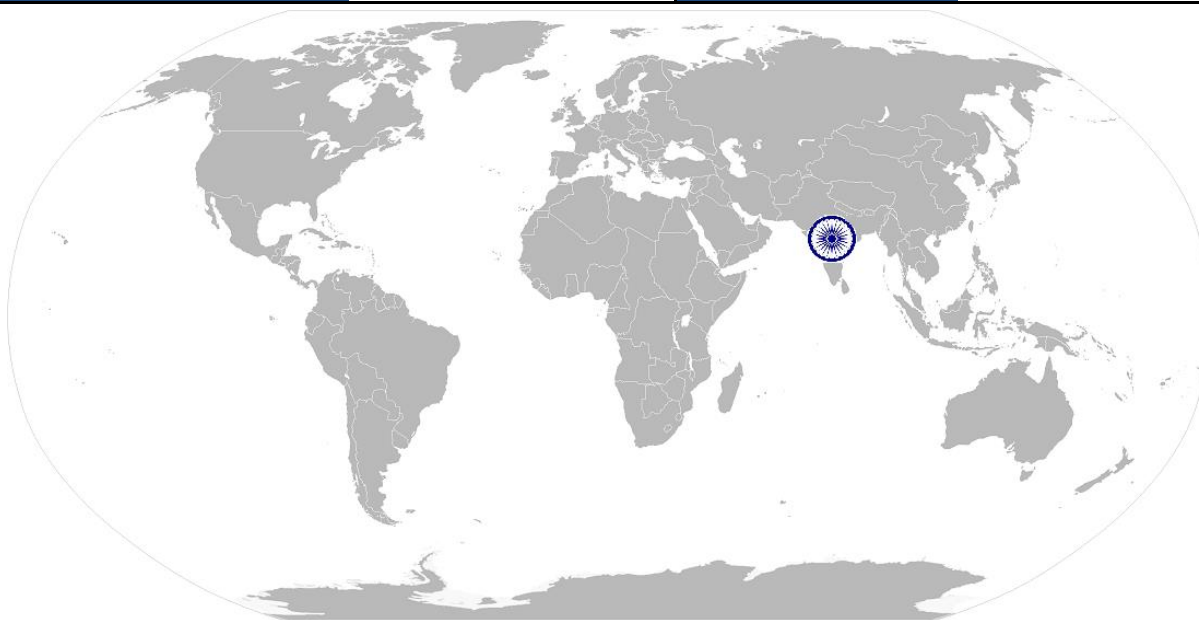
## **G&J/N3301 Manufacture chains, bangles, bracelets using CNC machines**

	<p>KB3. different type of metal alloys and their properties</p> <p>KB4. manufacturing techniques, tools, principles involved in production of precision jewellery products</p>
<b>Skills (S) [Optional]</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Reading and writing skills</b>
	The user/ individual on the job needs to know and understand how to:
	SA1. read notes, designs and instructions for CNC-machine made jewellery
	SA2. read company rules and compliance documents
	SA3. read operating manuals and standard operating procedures
	<b>Calculation and Geometry skills</b>
<b>B. Professional Skills</b>	The user/individual on the job needs to know and understand how to:
	SA4. measure the size and thickness according to jewellery design
	SA5. assess accuracy of alignment of fixtures, links/joints
	<b>Teamwork and multitasking</b>
	The user/individual on the job needs to know and understand how to:
	SA6. share work load when multiple deliverables are required
<b>B. Professional Skills</b>	SA7. deliver the jewellery product or component on time
	<b>Reading design</b>
	The user/individual on the job needs to know and understand:
	SB1. the steps involved in machine-made jewellery manufacturing as per design
	<b>Soldering operations</b>
	The user/individual on the job needs to know and understand how to:
<b>B. Professional Skills</b>	SB2. achieve correct level of soldering in order to join the different components of jewellery piece
	SB3. ensure linking for different product types as per design requirement and utility of the product
	<b>Reflective thinking</b>
	The user/individual on the job needs to know and understand how to:
	SB4. improve work processes or greater productivity
	SB5. use correct posture while performing the job of the filing and assembling
<b>B. Professional Skills</b>	SB6. reduce precious metal loss
	SB7. place the tools on the working bench for effective work management
	SB8. improve productivity and increase efficiency based on past working experience
	<b>Critical thinking</b>
	The user/individual on the job needs to know and understand how to:
	SB1. anticipate process disruption and reasons for delay

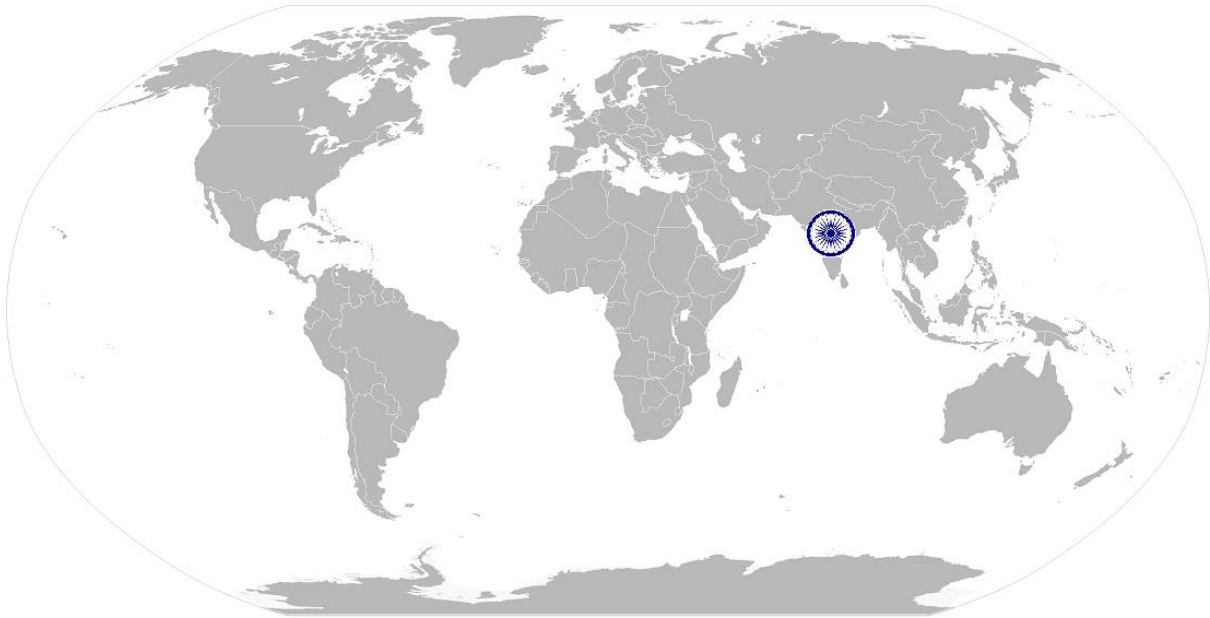
**G&J/N3301    Manufacture chains, bangles, bracelets using CNC machines**

**NOS Version Control**

NOS Code	G&J/N3303		
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	Master making	Next review date	13/08/15



# National Occupational Standard



## Overview

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



**G&J/N9901**

**Respect and maintain IPR**

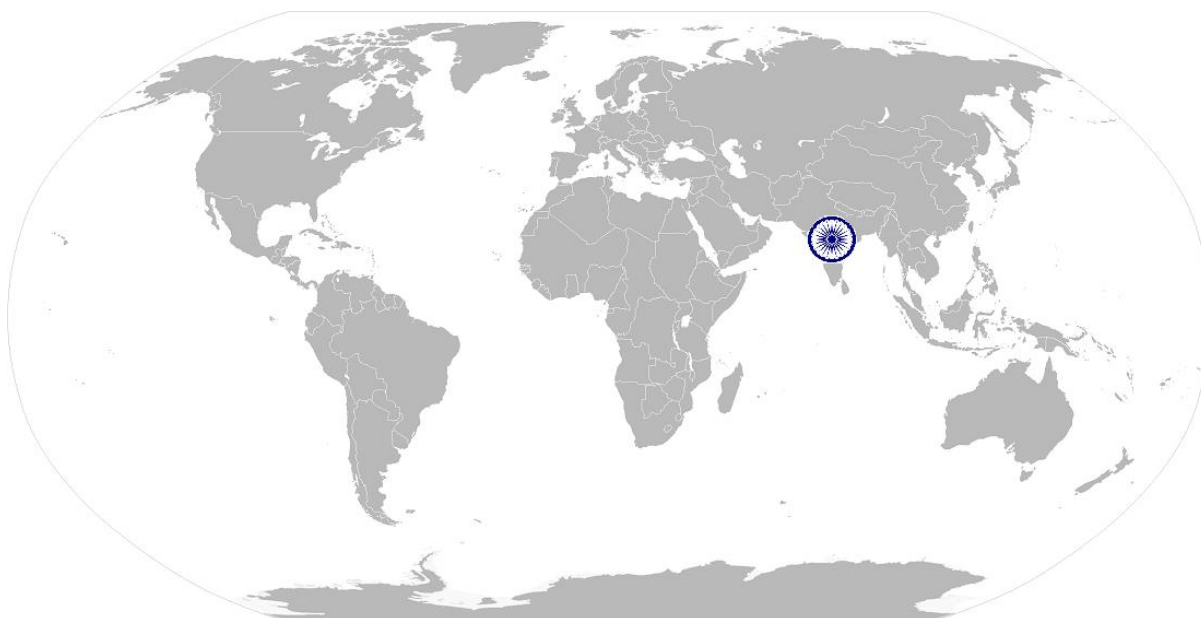
**National Occupational Standard**

<b>Unit Code</b>	<b>G&amp;J/N9901</b>
<b>Unit Title (Task)</b>	<b>Maintain IPR of company and respect IPR of other companies</b>
<b>Description</b>	This OS unit is about protecting company's IPR and avoiding infringement to IPR of other companies
<b>Scope</b>	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> <li>Protect company's Intellectual Property Rights (IPR)</li> <li>Avoid infringement to IPR of other companies</li> </ul>
<b>Performance Criteria(PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Respecting and Maintaining IPR</b>	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. prevent leak of new designs to competitors by reporting on time</p> <p>PC2. be aware of any of company's product or design patents</p> <p>PC3. report IPR violations observed in the market, to supervisor or company heads</p> <p>PC4. read copyright clause of the material published on the internet and any other printed material</p> <p>PC5. consult supervisor or senior management when in doubt about using publicly available information</p> <p>PC6. report any infringement observed in the company</p> <p>PC7. spot plagiarism and report</p> <p>PC8. understand significance of patents and IPR</p> <p>PC9. avoid being involved in IPR violations</p>
<b>Knowledge and Understanding (K)</b>	
<b>C. Organizational Context</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. company's policies on IPR and plagiarism</p> <p>KA2. reporting structure</p> <p>KA3. company's unique product range</p>
<b>B. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. patents and IPR laws</p> <p>KB2. how IPR protection is important for competitiveness of a company</p>
<b>Skills (S) [Optional]</b>	
<b>C. Core Skills/ Generic Skills</b>	<b>Communication skills</b>
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. effectively communicate any observed IPR violations or order leaks</p>
<b>D. Professional Skills</b>	<b>Decision making</b>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA1. report potential sources of violations</p>
	<b>Reflective thinking</b>

**G&J/N9901**

**Respect and maintain IPR**

	The user/individual on the job needs to know and understand to: SA2. learn from past mistakes and report IPR violations on time
	<b>Critical thinking</b>
	The user/individual on the job needs to know and understand how to: SA3. spot signs of violations and alert authorities in time

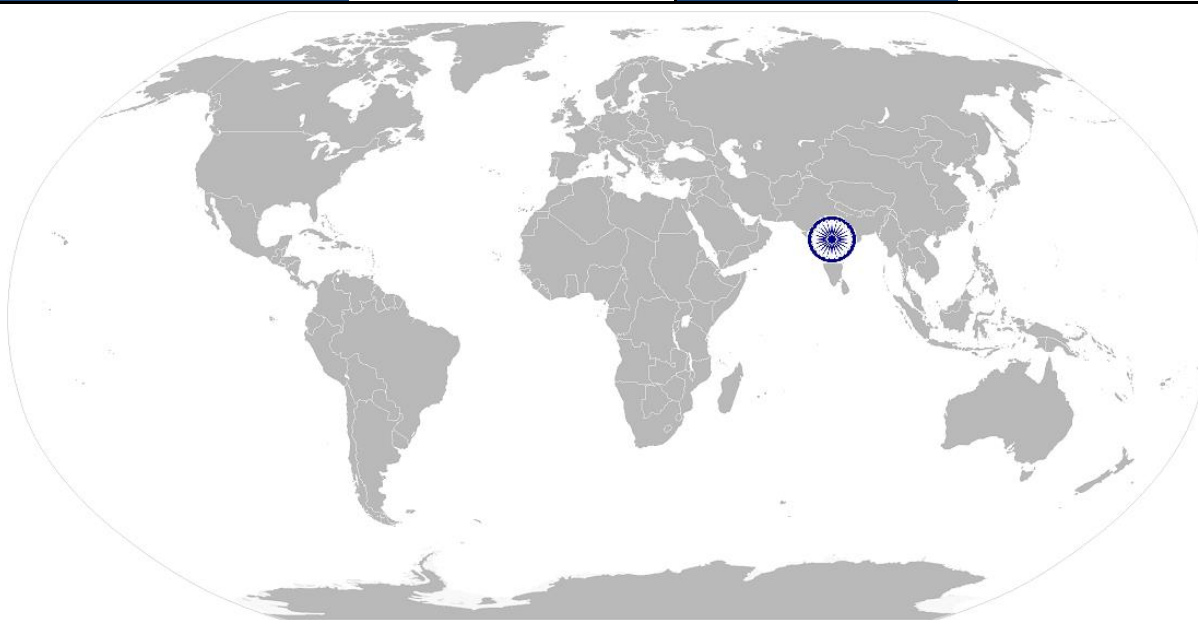


**G&J/N9901**

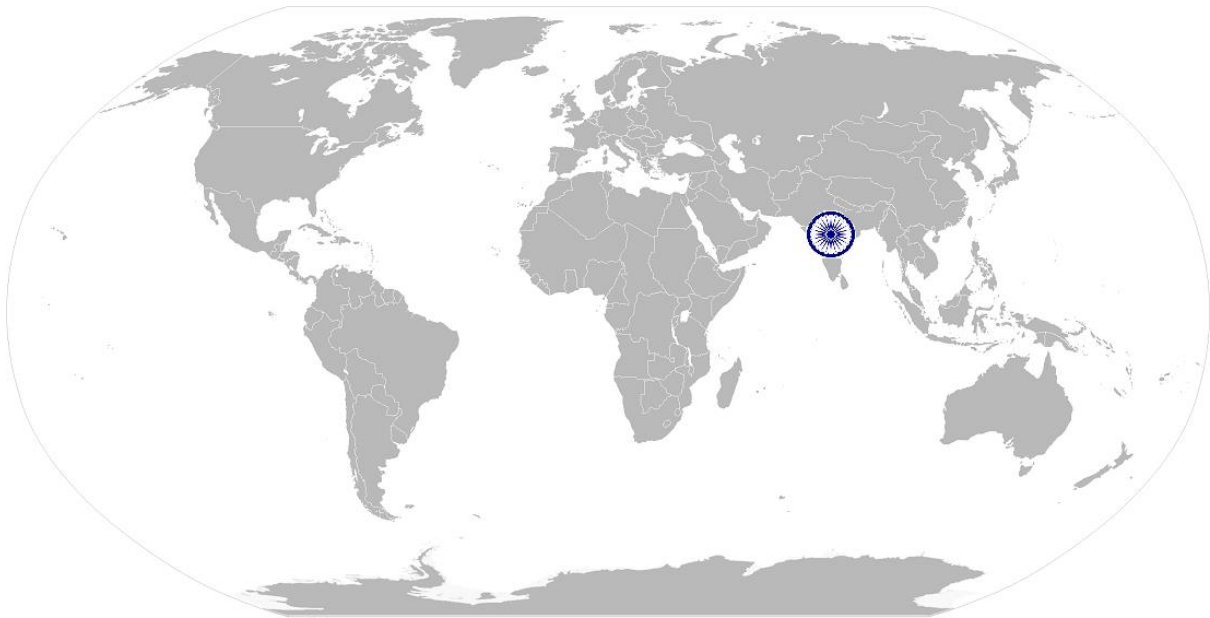
**Respect and maintain IPR**

## **NOS Version Control**

NOS Code	G&J/N9901		
Credits(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	13/08/15



# 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**

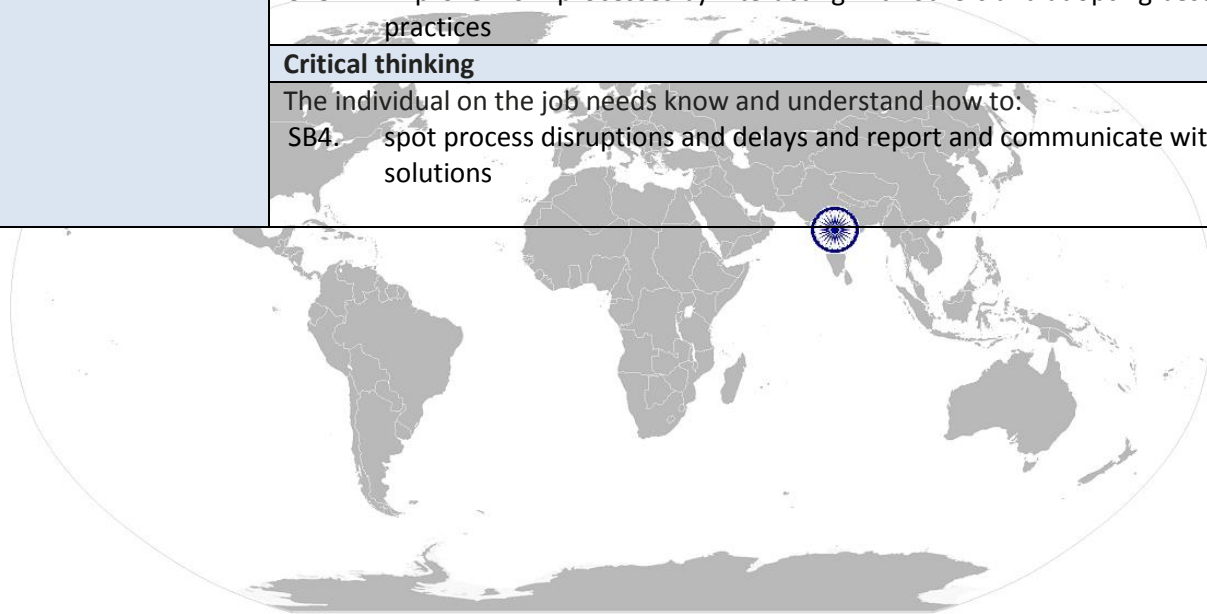
National Occupational Standard

<b>Unit Code</b>	<b>G&amp;J/N9902</b>
<b>Unit Title (Task)</b>	<b>Interact with colleagues and seniors</b>
<b>Description</b>	This OS unit is about communicating with colleagues and seniors in order to achieve smooth and hazard-free work flow
<b>Scope</b>	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> <li>Interact with supervisor</li> <li>Interact with colleagues within and outside the department</li> </ul>
<b>Performance Criteria(PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Interaction with supervisor</b>	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. receive work instructions and raw materials from reporting supervisor</p> <p>PC2. communicate to reporting supervisor about process-flow improvements, product defects received from previous process, repairs and maintenance of tools and machinery as required</p> <p>PC3. communicate any potential hazards or expected process disruptions</p> <p>PC4. handover completed work to supervisor</p> <p>PC5. understand the work output requirements</p> <p>PC6. comply with company policy and rule</p> <p>PC7. deliver quality work on time as required by reporting any anticipated reasons for delays</p>
<b>Interactions with colleagues and other departments</b>	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC8. work as a team with colleagues and share work as per their or own work load and skills</p> <p>PC9. work with colleagues of other departments</p> <p>PC10. communicate and discuss work flow related difficulties in order to find solutions with mutual agreement</p> <p>PC11. receive feedback from qc and rework in order to complete work on time</p> <p>PC12. put team over individual goals</p> <p>PC13. be able to resolve conflicts</p> <p>PC14. learn how to multi-task relevant activities</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. company's policies on: preferred language of communication, reporting and escalation policy, quality delivery standards, and personnel management</p> <p>KA2. reporting structure</p>
<b>B. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand how to:</p> <p>KB1. communicate effectively</p> <p>KB2. build team coordination</p>

**G&J/N9902**

**Coordinate with others**

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



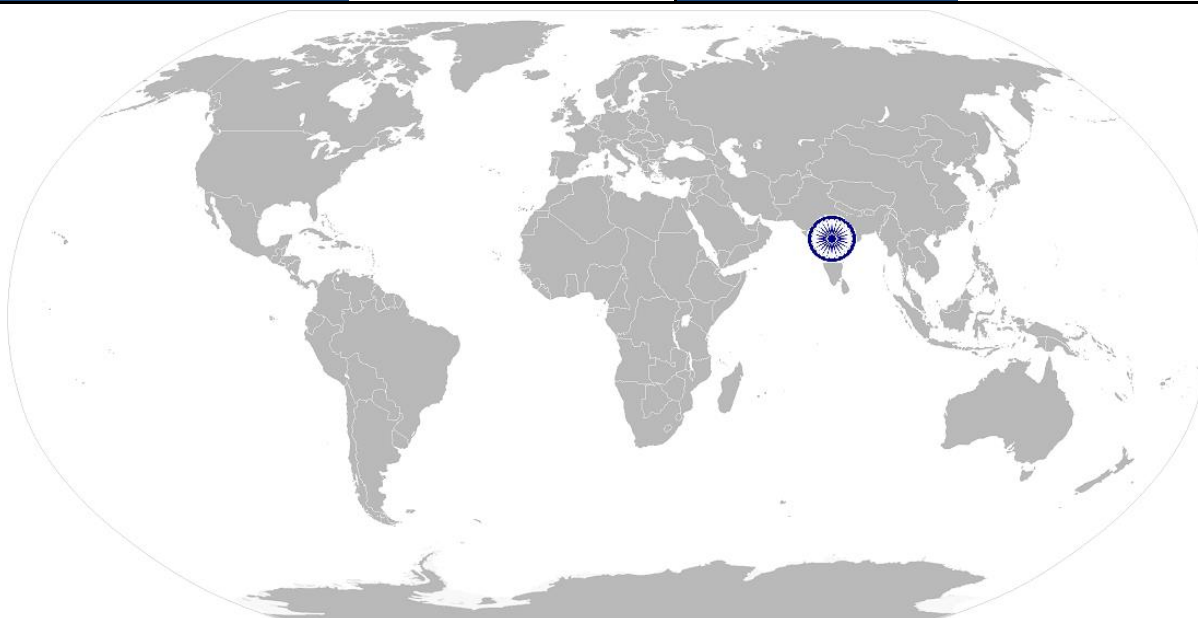


**G&J/N9902**

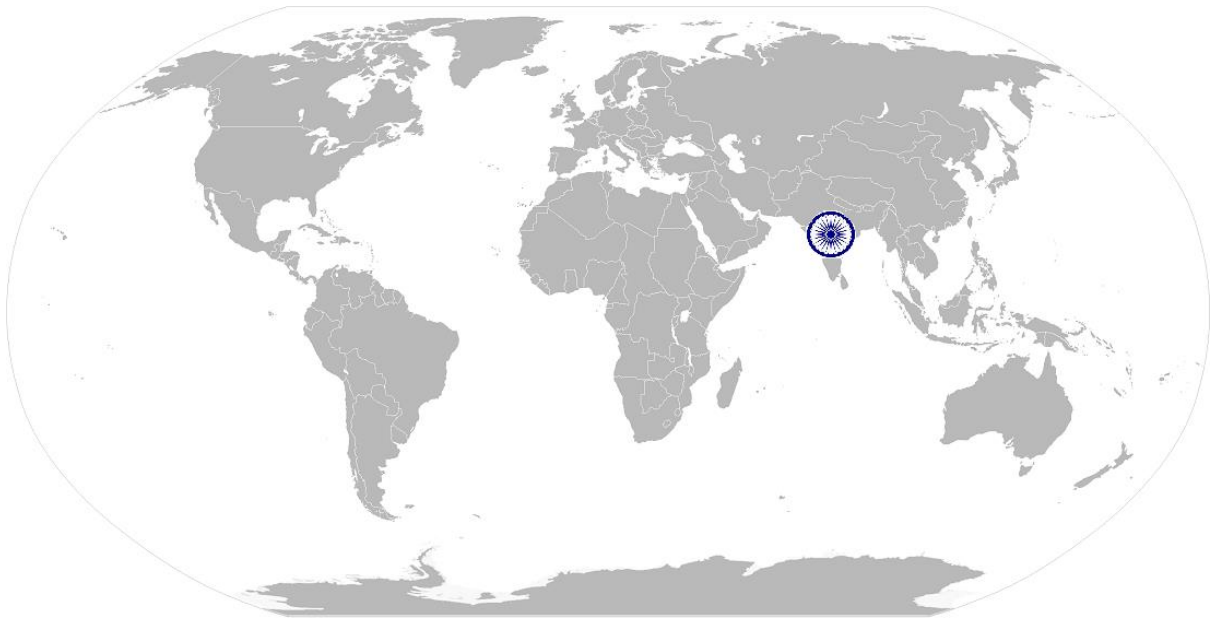
**Coordinate with others**

## **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	13/08/15



# 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

<b>Unit Code</b>	<b>G&amp;J/N9905</b>
<b>Unit Title (Task)</b>	<b>Maintain occupational health and safety</b>
<b>Description</b>	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
<b>Scope</b>	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> <li>• Understand potential sources of accidents</li> <li>• Use safety gear to avoid accidents</li> <li>• Actively participate in the health and safety awareness campaigns</li> <li>• Communicate to reporting supervisor about:</li> </ul>
<b>Performance Criteria(PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Communicating potential accident points</b>	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. understand potential sources of accidents in order to avoid accidents related to use of potentially dangerous chemicals, sharp tools, hazards from machines and other equipment such as heating lamps</p> <p>PC2. spot and report potential hazards on time</p> <p>PC3. follow company policy and rules regarding use of hazardous materials</p> <p>PC4. attend and actively participate in the health and safety campaigns organised by the company</p> <p>PC5. Process flow improvements that can reduce anticipated or repetitive hazards</p> <p>PC6. Mishandling of tools, machines or hazardous materials</p> <p>PC7. Electrical problems that could result in accident</p>
<b>Using safety gear</b>	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC8. use or wear safety gear as per the rules of the company</p> <p>PC9. attend fire drills organised by the company or industrial zone</p> <p>PC10. learn first aid procedure</p> <p>PC11. be alert about designated assembly area in the event of an emergency</p> <p>PC12. read and understand the evacuation and emergency procedures</p>
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. company's policies on: safety and hazards and personnel management</p> <p>KA2. reporting structure</p>
<b>B. Technical Knowledge</b>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. how different chemicals react and what could be the danger from them</p> <p>KB2. how to use machines and tools without suffering bodily harm</p>

**G&J/N9905**

**Maintain occupational health and safety**

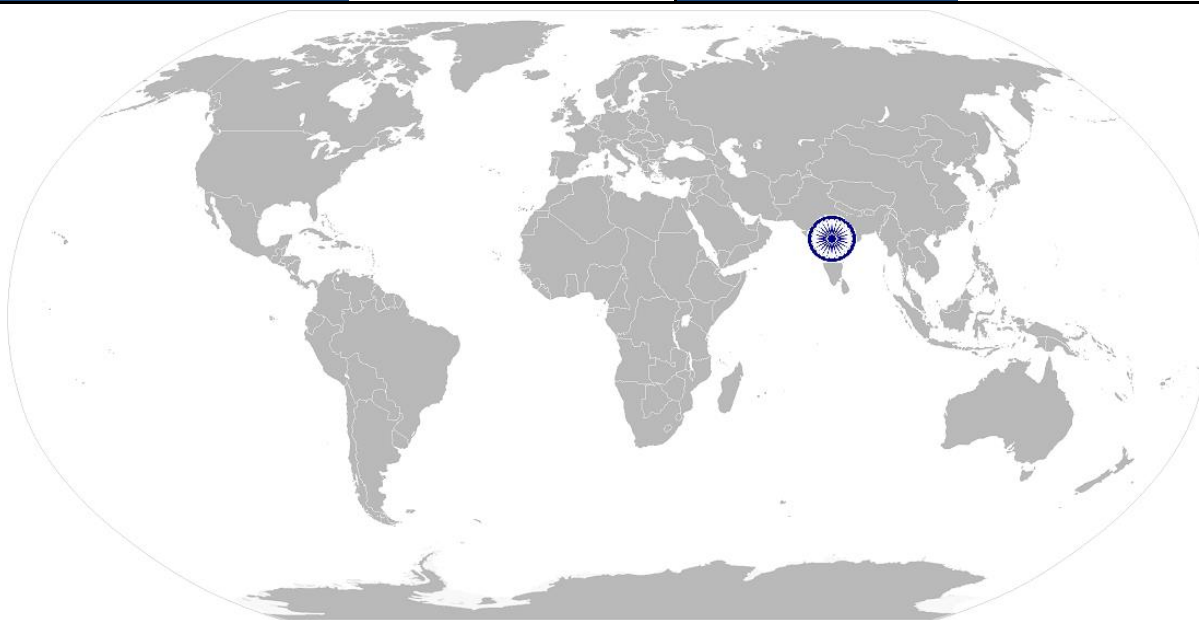
<b>Skills (S) [Optional]</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Communication skills</b>
	The individual on the job needs to know and understand how to: SA1. effectively communicate the danger
	<b>Organising skills</b>
	The individual on the job needs to know and understand how to: SA2. keep all the tools in an organised manner so as to avoid accidents SA3. keep the work environment safe and clean
<b>B. Professional Skills</b>	<b>Decision making</b>
	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
	<b>Reflective thinking</b>
	The individual on the job needs to know and understand to: SB4. learn from past mistakes regarding use of hazardous machines or chemicals
	<b>Critical thinking</b>
	The individual on the job needs to know and understand how to: SB5. spot dangers
	<b>Decision making</b>
	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(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	13/08/15



Definitions

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

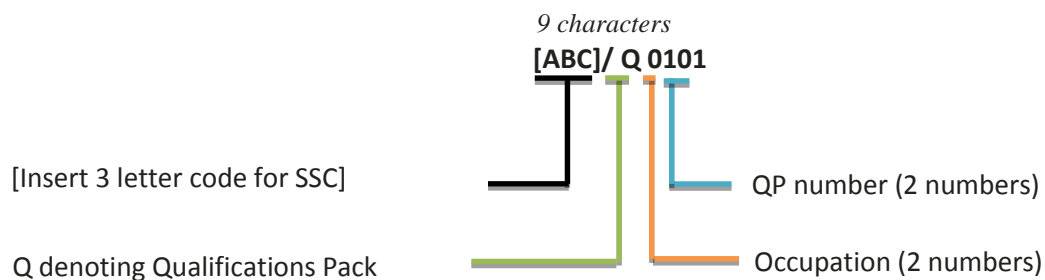


	specific designated responsibilities.
Core Skills/ Generic Skills	Core skills or generic skills are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Keywords /Terms	Description
CAD	Computer Aided Design
CAM	Computer Aided Manufacturing
CNC	Computer Numerical Control
IPR	Intellectual Property Rights
NOS	National Occupational Standard(s)
NVQF	National Vocational Qualifications Framework
NSQF	National Qualifications Framework
NVEQF	National Vocational Education Qualifications Framework
QP	Qualifications Pack

## Annexure

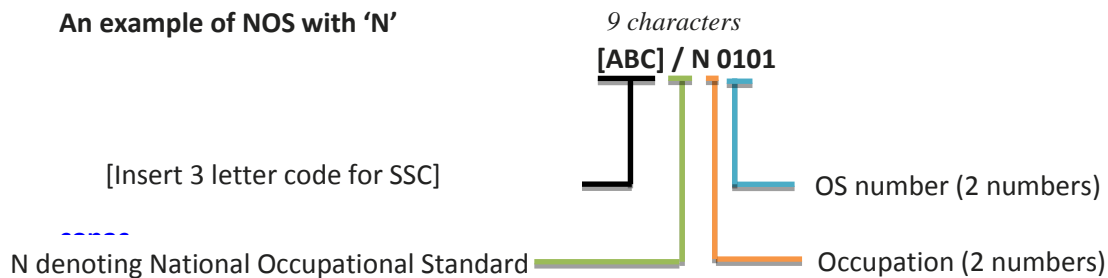
### Nomenclature for QP and NOS

#### Qualifications Pack



#### Occupational Standard

##### An example of NOS with 'N'



[Back to top...](#)

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

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

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

		CRITERIA FOR ASSESSMENT OF TRAINEES		
Job Role		CNC Machine Jewellery Maker		
Qualification Pack		CNC Machine Jewellery Maker		
Sector Skill Council		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/N3301 Manufacture chains, bangles, bracelets using CNC machine	Producing resin based prototype using CAM machine	PC1. accurately set up and calibrate CNC machine	2	8
		PC2. select appropriate metal core and tools	2	8
		PC3. make durable solders in the joints/links	2	8
		PC4. regularly perform the annealing as per specification until the wire of requisite size is produced	1	8
		PC5. maintain the alignment of seam while winding the precious metal wire in specific shape	1	8
		PC6. select the type, size and thickness of the dies, core and tools according to jewellery design	1	5
		PC7. accurately measure design dimensions of the jewellery products	1	5
		PC8. perform machine operations with the precision at each stage of manufacturing	1	5
	Productivity	PC9. minimise the precious metal loss	1	5
		PC10. improve the production rate of machine made jewellery components	0	5
		PC11. timely deliver each type of jewellery	0	4
		PC12. produce number of jewellery products as per target given	0	3
	Quality & Output	PC13. produce quality approved jewellery products as per the design and instructions given by production manager	0	2
		PC14. minimise productions disruptions because of machine operational issues	0	1
			Sub Total	12
2. 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
3. G&J/N9902 Coordinate with team and others	Interaction with superior	PC1. understand the work output requirements	1	0
		PC2. comply with company policy and rule	1	1
		PC3. deliver quality work on time as required by reporting any anticipated reasons for delays	1	1
	Interactions with colleagues, customers and/or vendors	PC4. put team over individual goals	0	0
		PC5. resolve conflicts and multi-task	0	0
		PC2. follow company policy and rules regarding use of hazardous materials	0	0

		CRITERIA FOR ASSESSMENT OF TRAINEES		
		Sub Total	3	2
4. G&J/N9905 Maintain occupational health and safety	Communicating potential accident points	PC1. spot and report potential hazards on time	1	2
		PC2. follow company policy and rules regarding use of hazardous materials	1	1
		PC3. deliver quality work on time as required by reporting any anticipated reasons for delays	0	0
	Using safety gear	PC4. use or wear safety gear as per the rules of the company	0	0
		Sub Total	2	3
		Total	20	80

