

## 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
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

Contact Us:  
GJSCI, Mumbai

E-mail: [coo@gjsci.org](mailto:coo@gjsci.org)



## Introduction

### Qualifications Pack – Wax tree maker

**SECTOR:** GEMS & JEWELLERY

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

**OCCUPATION:** Wax model making

**REFERENCE ID:** G&J/Q2601

**ALIGNED TO:** NCO-NIL

**Wax tree maker:** A wax tree maker assembles wax replicas of jewellery pieces on to a wax tree with a central sprue. The tree is placed in the investment mould for casting process where the melted wax leaves cavities in the cast and molten metal is poured in for adopting the shape of the cavities left by the wax. Since the shape of the assembled wax pieces resembles a tree, hence the name, wax tree.

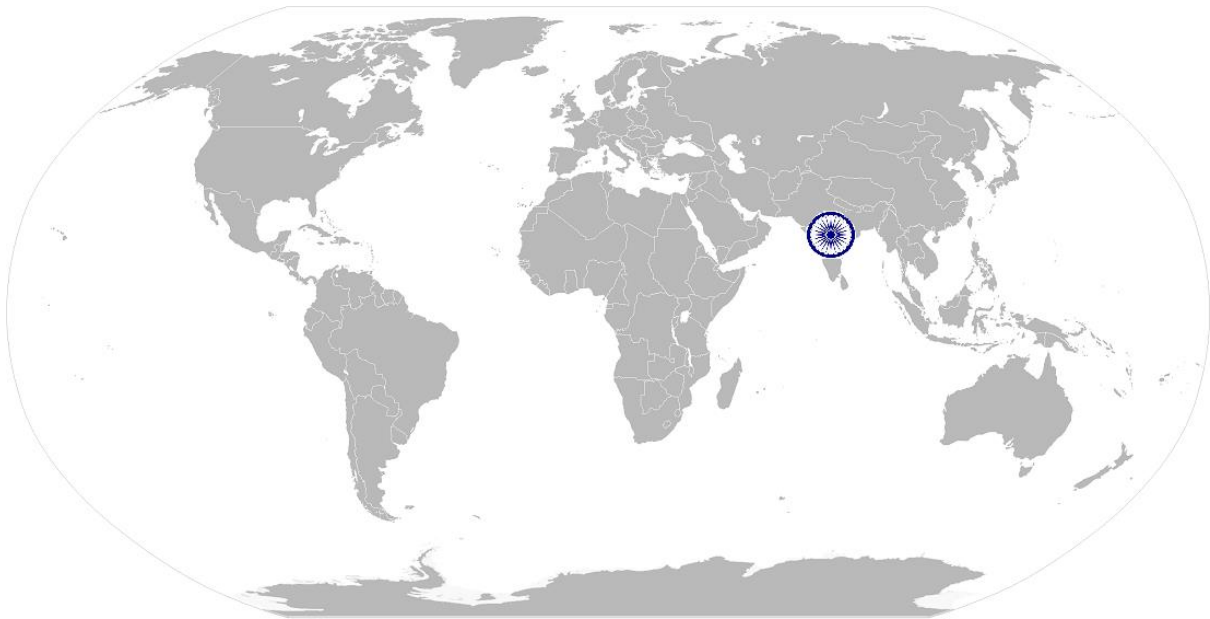
**Brief Job Description:** A wax tree maker works with different types of waxes, wax soldering machine and consumables in order to assemble wax pieces in a tree like structure.

**Personal Attributes:** The job requires the individual to have: attention to details; good eyesight; steady hands; quick response; ability to work in a process driven team and for long hours in sitting position. The individual must also have problem solving skills in order to avert machine failures, errors and hazards.

<b>Qualifications Pack Code</b>	<b>G&amp;J/Q2601</b>		
<b>Job Role</b>	<b>Wax tree maker</b>		
<b>Credits(NVEQF/NVQF/NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Sector</b>	<b>Gems &amp; Jewellery</b>	<b>Drafted on</b>	<b>29/05/13</b>
<b>Sub-sector</b>	<b>Cast and Diamond-set Jewellery</b>	<b>Last reviewed on</b>	<b>30/07/13</b>
<b>Occupation</b>	<b>Wax model making</b>	<b>Next review date</b>	<b>15/07/15</b>

<b>Job Role</b>	<b>Wax tree maker</b>
<b>Role Description</b>	Assembling wax replica of jewellery components by soldering the wax pieces on central wax sprue, for mass production of jewellery piece through casting process
<b>NVEQF/NVQF level</b>	3
<b>Minimum Educational Qualifications</b>	Preferably 10 <sup>th</sup> standard passed
<b>Maximum Educational Qualifications</b>	
<b>Training</b>	Computer operations
<b>Experience</b>	Not applicable
<b>Applicable National Occupational Standards (NOS)</b>	<p><b>Compulsory:</b></p> <ol style="list-style-type: none"> <li><a href="#">G&amp;J/N2601 Make the wax tree</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>
<b>Performance Criteria</b>	As described in the relevant OS units

# National Occupational Standard



## Overview

This unit is about assembling wax replica of jewellery piece by soldering wax pieces on central wax sprue in order to use it for mass production of jewellery piece through casting process.

**G&J/N2601**

**Make the wax tree**

National Occupational Standard

<b>Unit Code</b>	<b>G&amp;J/N2601</b>
<b>Unit Title (Task)</b>	<b>Make the wax tree</b>
<b>Description</b>	This OS unit is about assembling wax replica of jewellery components by soldering wax pieces on central wax sprue, in order to use it for mass production of jewellery piece through casting process
<b>Scope</b>	<p>This unit/task covers the following:</p> <p>Receive the wax pieces, consumables and instructions from supervisor</p> <ul style="list-style-type: none"> <li>• collect wax pieces, including studded with diamond and gemstones</li> <li>• count the number of pieces and match with the job sheet</li> <li>• read the instructions for number and type of wax pieces to be assembled on a wax tree</li> <li>• select the type of central sprue as per design specified by the product development department or job sheet</li> </ul> <p>Clean and check each wax piece</p> <ul style="list-style-type: none"> <li>• inspect all wax pieces for signs of defects or blemishes and missing diamonds and gemstones to avoid transporting defects to the metal cast jewellery</li> <li>• clean and smooth wax patterns in preparation for making wax tree</li> </ul> <p>Make the wax tree as per job sheet</p> <ul style="list-style-type: none"> <li>• select the rubber base for the tree, preferably in a conical shape</li> <li>• clean the rubber base and check for any residue and defects</li> <li>• use QC okayed rubber base</li> <li>• select central sprue with lower melting range than the wax pieces, so that central stem melts first in the burnout cycle and help avoid stress in the invested flask</li> <li>• select sprue with optimised dimension (tapered diameter is preferred), which helps reduce weight of alloy used in the casting process</li> <li>• fit rubber base to the central sprue</li> <li>• arrange the wax pieces to be assembled, e.g., thin or lighter wax pieces at top or complex designs at top</li> <li>• join the wax piece sprue to the central sprue by soldering at the recommended angle of, say, 45° – 60°</li> <li>• measure the weight of the assembled tree and note in the job sheet</li> </ul> <p>Return prepared wax tree to supervisor</p> <ul style="list-style-type: none"> <li>• self-check each wax tree for angle and spacing between the wax pieces</li> <li>• ensure timely delivery of the required number of quality okayed trees</li> </ul> <p>Report problems related to:</p> <ul style="list-style-type: none"> <li>• missing diamonds and gemstones on the wax pieces</li> <li>• imperfect wax pieces</li> <li>• completely different wax pieces in terms of its shape, size and weight are assigned for the same wax tree</li> </ul>

**G&J/N2601**

**Make the wax tree**

	<ul style="list-style-type: none"> <li>shortage of wax, consumables and tools</li> <li>reasons for anticipated delays that may adversely affect delivery</li> </ul> <p>Interact with superior or master model maker to:</p> <ul style="list-style-type: none"> <li>receive instructions and materials from reporting supervisor</li> </ul>
<b>Performance Criteria(PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Wax tree making</b>	To be competent, the user/individual on the job must be able to: PC1. select appropriate rubber base and central sprue PC2. select appropriate length of the sprue for the number of wax pieces PC3. assemble wax pieces according to instructions and standard operating procedure in terms of sequence, angle and spacing of the wax pieces
<b>Productivity</b>	To be competent, the user/individual on the job must be able to: PC4. timely deliver wax pieces to next process PC5. produce number of wax tree per day as per target given PC6. ensure damage free output with minimal hazards
<b>Quality of output</b>	To be competent, the user/individual on the job must be able to: PC7. inspect all wax pieces, rubber base, nozzle and central sprue for imperfect surface finishing PC8. solder wax piece to central sprue without damaging wax pieces PC9. produce wax tree is quality okayed
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b>	The user/individual on the job needs to know and understand: KA1. company's policies on: quality, incentives, delivery standards, safety and hazards, integrity and IPR, and personnel management KA2. importance of the individual's role in the workflow KA3. reporting structure
<b>B. Technical Knowledge</b>	The user/individual on the job needs to know and understand: KB1. different types of wax and their properties, particularly, with respect to heat and pressure sensitivity KB2. uses of different qualities of wax and its properties in terms of shrinkage KB3. different types of central sprue and rubber base KB4. potential work hazards, particularly, when using wax soldering machine and sharp tools
<b>Skills (S) [Optional]</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Basic reading and writing skills</b> The user/ individual on the job needs to know and understand how to: SA1. read notes, designs and instructions on job sheet SA2. read company rules and compliance documents required to complete the work

**G&J/N2601**

**Make the wax tree**

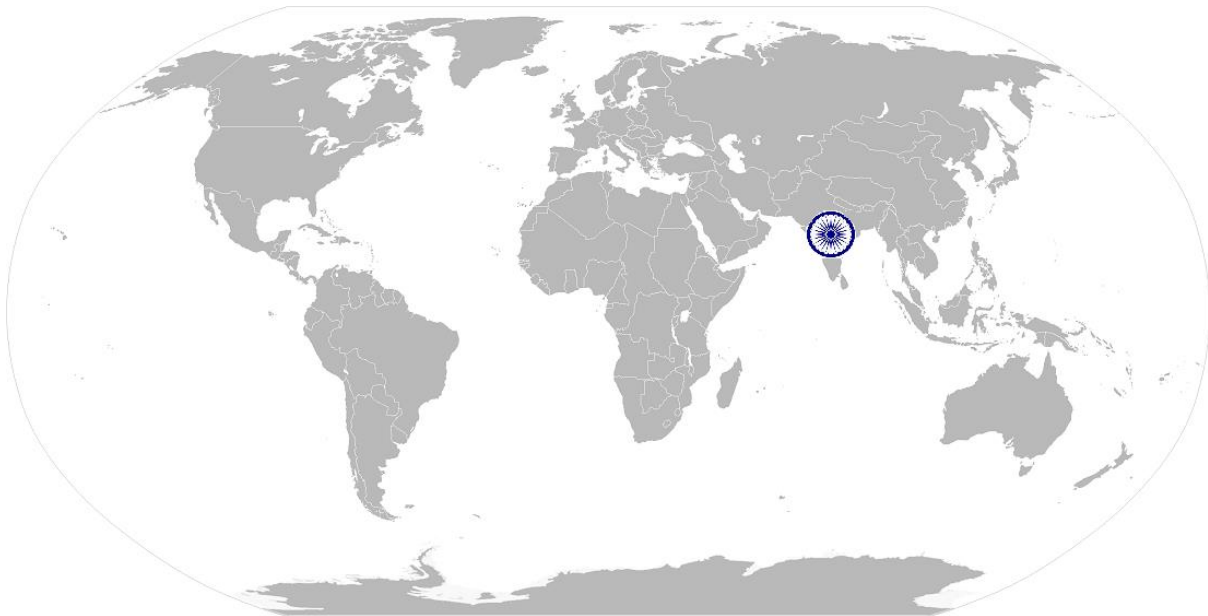
	<b>Calculation and Geometry skills</b>
	The user/individual on the job needs to know and understand how to: SA3. count the number of wax pieces to be assembled on the same wax tree SA4. assess accuracy of alignment and measure symmetry
	<b>Teamwork and multitasking</b>
	The user/individual on the job needs to know and understand how to: SA5. share work load when multiple deliverables are required SA6. deliver the wax tree to next work process on time
<b>B. Professional Skills</b>	<b>Understanding wax and other consumables</b>
	The user/individual on the job needs to know and understand: SB1. wax types and its properties SB2. dimensions of central stem and rubber base SB3. prescribed melting temperature of the different types of wax
	<b>Using tools and machines</b>
	The user/individual on the job needs to know and understand how: SB4. to use the wax soldering machine SB5. to work in a safe environment, i.e., without injuries
	<b>Reflective thinking</b>
	The user/individual on the job needs to know and understand how to: SB6. improve work processes or greater productivity SB7. inspect all wax pieces, rubber base, nozzle and central stem for imperfect surface finishing SB8. self-check each wax tree for angle and spacing between the wax pieces
<b>Critical thinking</b>	
The user/individual on the job needs to know and understand how to: SB9. anticipate process disruption and reasons for delay	

**G&J/N2601**

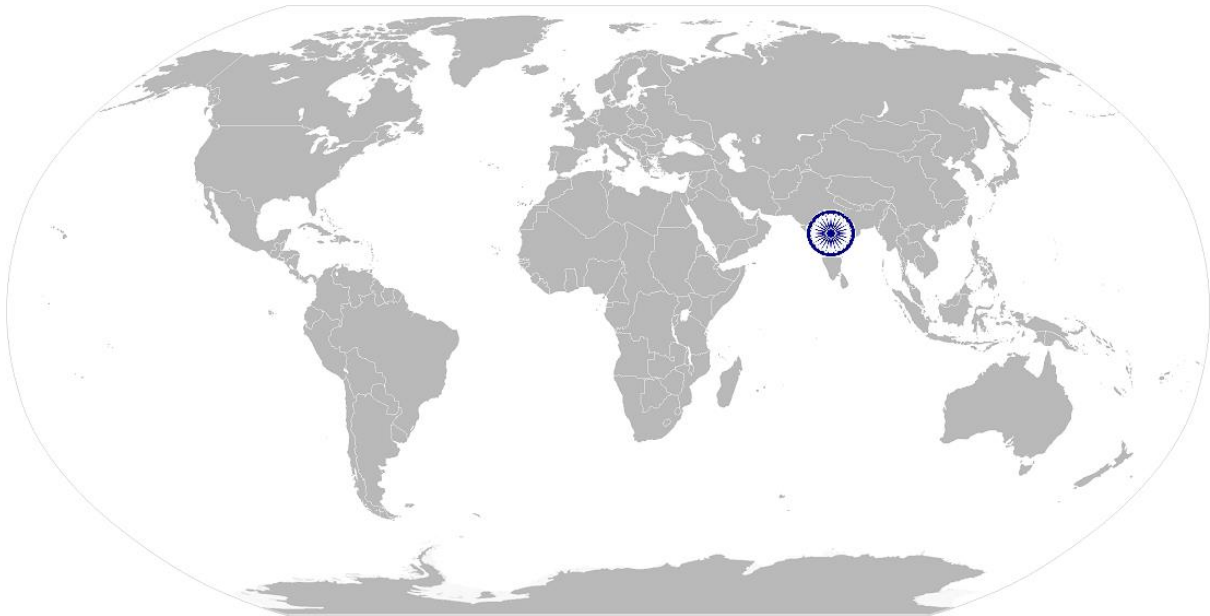
**Make the wax tree**

**NOS Version Control**

<b>NOS Code</b>	<b>G&amp;J/N2601</b>		
<b>Credits(NVEQF/NVQF/NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Gems &amp; Jewellery</b>	<b>Drafted on</b>	<b>29/05/13</b>
<b>Industry Sub-sector</b>	<b>Cast and Diamond-set Jewellery</b>	<b>Last reviewed on</b>	<b>30/07/13</b>
<b>Occupation</b>	<b>Wax model making</b>	<b>Next review date</b>	<b>15/06/15</b>



# 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**

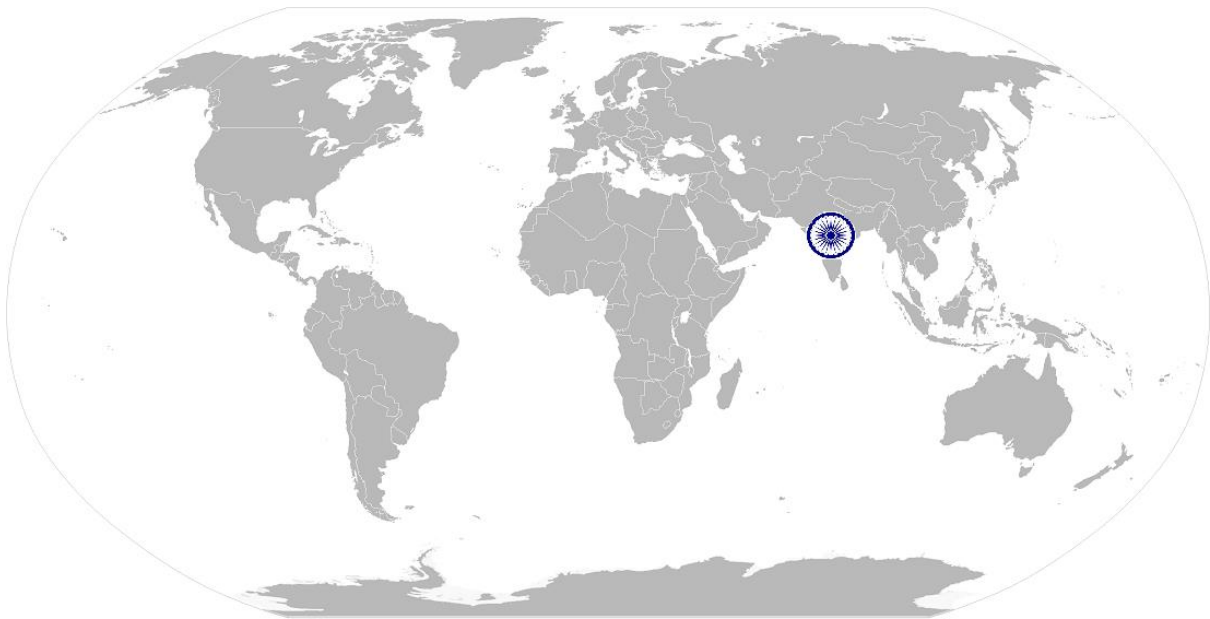
National Occupational Standard

<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> <p>Protect company's Intellectual Property Rights (IPR)</p> <ul style="list-style-type: none"> <li>prevent leak of new designs to competitors by reporting on time</li> <li>be aware of any of company's product or design patents</li> <li>report IPR violations observed in the market, to supervisor or company heads</li> </ul> <p>Avoid infringement to IPR of other companies</p> <ul style="list-style-type: none"> <li>read copyright clause of the material published on the internet and any other printed material</li> <li>consult supervisor or senior management when in doubt about using publicly available information</li> <li>report any infringement observed in the company</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>	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
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b>	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>B. Technical Knowledge</b>	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
<b>Skills (S) [Optional]</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Communication skills</b>
	The user/ individual on the job needs to know and understand how to: SA1. effectively communicate any observed IPR violations or order leaks
<b>B. Professional Skills</b>	<b>Decision making</b>
	The user/individual on the job needs to know and understand how to: SA2. report potential sources of violations

**G&J/N9901**

**Respect and maintain IPR**

	<b>Reflective thinking</b>
	The user/individual on the job needs to know and understand to: SA3. 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: SA4. spot signs of violations and alert authorities in time

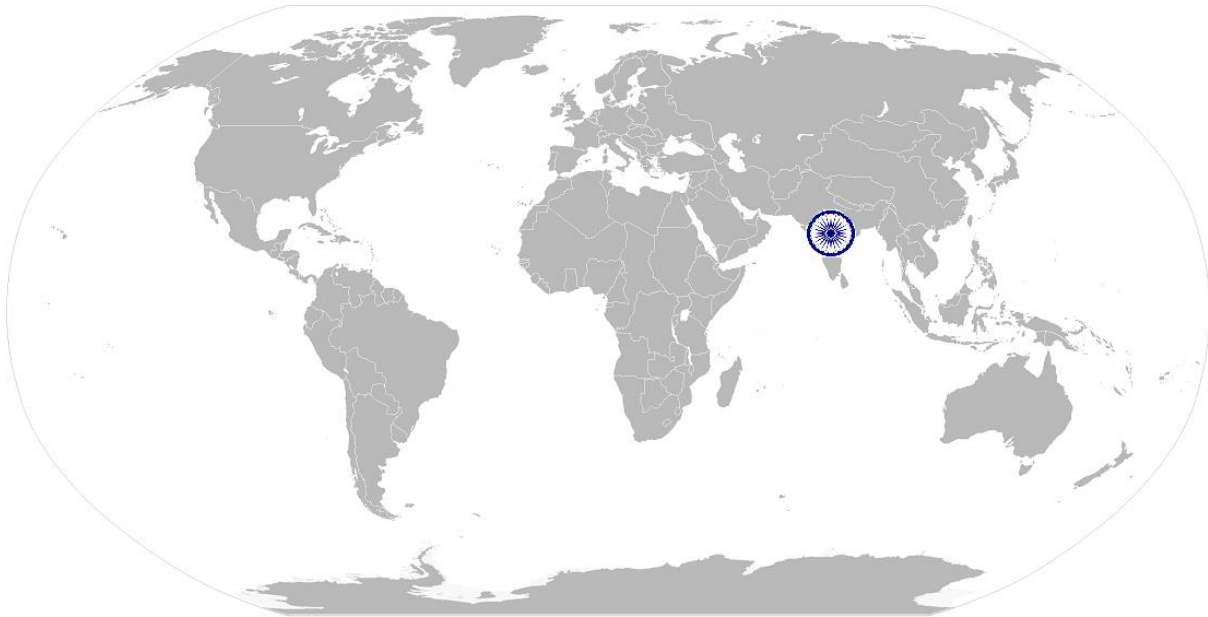


**G&J/N9901**

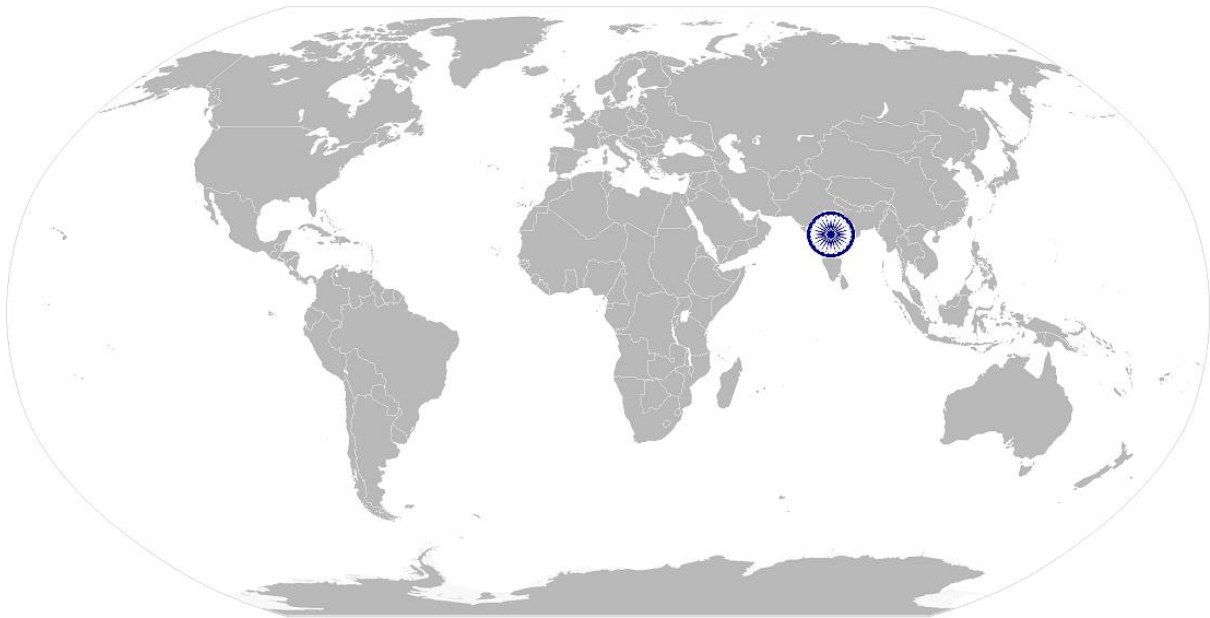
**Respect and maintain IPR**

**NOS Version Control**

<b>NOS Code</b>	<b>G&amp;J/N9901</b>		
<b>Credits(NVEQF/NVQF/NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Gems &amp; Jewellery</b>	<b>Drafted on</b>	<b>29/05/13</b>
<b>Industry Sub-sector</b>	<b>Cast and Diamond-set Jewellery</b>	<b>Last reviewed on</b>	<b>30/07/13</b>
		<b>Next review date</b>	<b>15/06/15</b>



# 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**

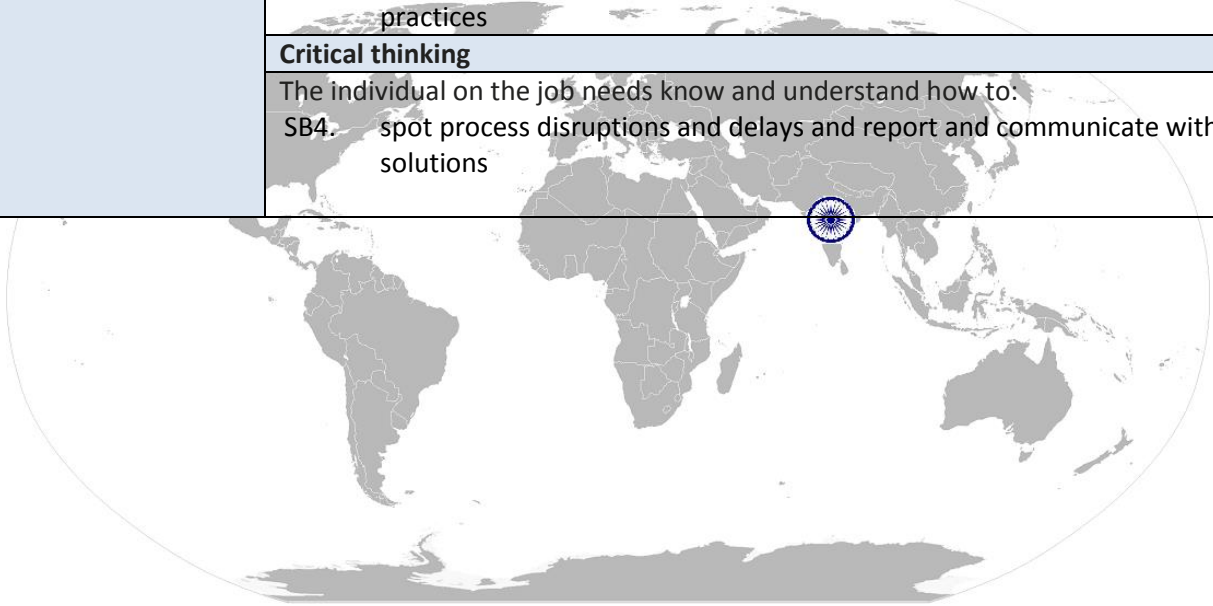
National Occupational Standard

<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> <p>Interact with supervisor</p> <ul style="list-style-type: none"> <li>• receive work instructions and raw materials from reporting supervisor</li> <li>• communicate to reporting supervisor about process-flow improvements, product defects received from previous process, repairs and maintenance of tools and machinery as required</li> <li>• communicate any potential hazards or expected process disruptions</li> <li>• handover completed work to supervisor</li> </ul> <p>Interact with colleagues within and outside the department</p> <ul style="list-style-type: none"> <li>• work as a team with colleagues and share work as per their or own work load and skills</li> <li>• work with colleagues of other departments</li> <li>• communicate and discuss work flow related difficulties in order to find solutions with mutual agreement</li> <li>• receive feedback from qc and rework in order to complete work on time</li> </ul>
<b>Performance Criteria(PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Interaction with supervisor</b>	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
<b>Interactions with colleagues and other departments</b>	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
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b>	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>B. Technical Knowledge</b>	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**

<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. read and write preferred language of communication as prescribed by the company SA2. read job sheets and interpret technical details mentioned in the job sheet
<b>B. Professional Skills</b>	<b>Decision making</b>
	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
	<b>Reflective thinking</b>
	The individual on the job needs to know and understand how to: SB3. improve work processes by interacting with others and adopting best practices
	<b>Critical thinking</b>
The individual on the job needs know and understand how to: SB4. spot process disruptions and delays and report and communicate with solutions	

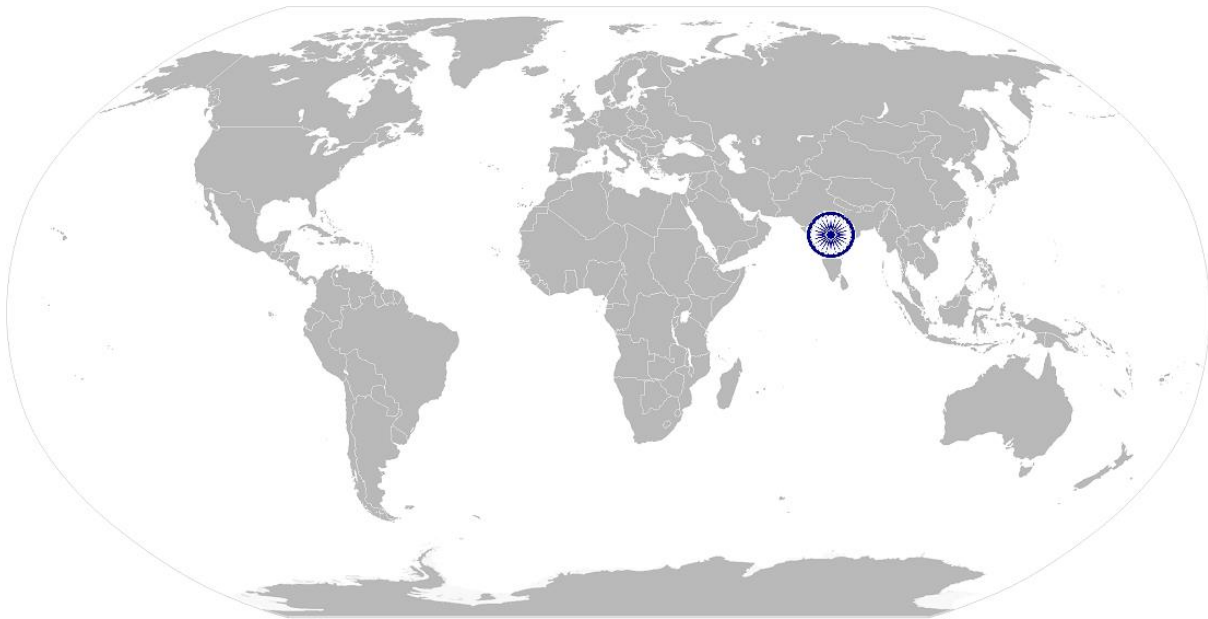


**G&J/N9902**

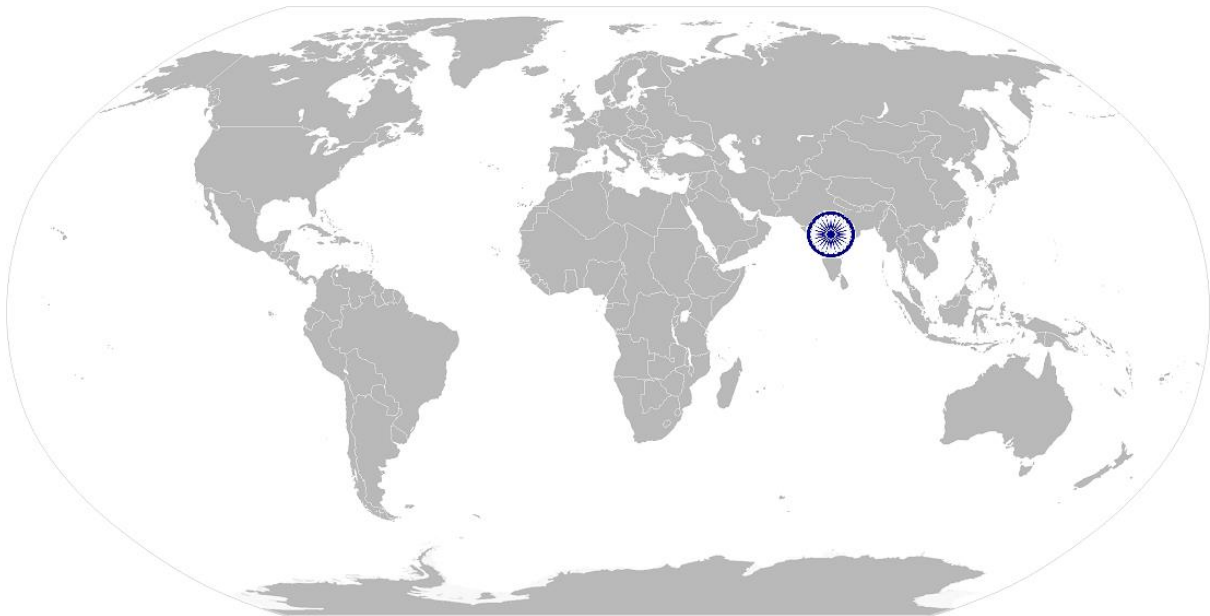
**Coordinate with others**

**NOS Version Control**

<b>NOS Code</b>	<b>G&amp;J/N9902</b>		
<b>Credits(NVEQF/NVQF/NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Gems &amp; Jewellery</b>	<b>Drafted on</b>	<b>29/05/13</b>
<b>Industry Sub-sector</b>	<b>Cast and diamond-set jewellery</b>	<b>Last reviewed on</b>	<b>30/07/13</b>
		<b>Next review date</b>	<b>15/06/15</b>



# 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> <p>Understand potential sources of accidents</p> <ul style="list-style-type: none"> <li>to avoid accidents related to use of potentially dangerous chemicals, sharp tools and machines</li> </ul> <p>Use safety gear to avoid accidents</p> <ul style="list-style-type: none"> <li>wear safety gear such as goggles, mask, gloves, ear plugs</li> </ul> <p>Actively participate in the health and safety awareness campaigns</p> <ul style="list-style-type: none"> <li>attend fire drills organised by the company or industrial zone</li> <li>learn first aid procedure</li> <li>be alert about designated assembly area in the event of an emergency</li> <li>read and understand the evacuation and emergency procedures</li> </ul> <p>Communicate to reporting supervisor about:</p> <ul style="list-style-type: none"> <li>process flow improvements that can reduce anticipated or repetitive hazards</li> <li>mishandling of tools, machines or hazardous materials</li> <li>electrical problems that could result in accident</li> </ul>
<b>Performance Criteria(PC) w.r.t. the Scope</b>	
<b>Element</b>	<b>Performance Criteria</b>
<b>Communicating potential accident points</b>	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
<b>Using safety gear</b>	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
<b>Knowledge and Understanding (K)</b>	
<b>A. Organizational Context</b>	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>B. Technical Knowledge</b>	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**

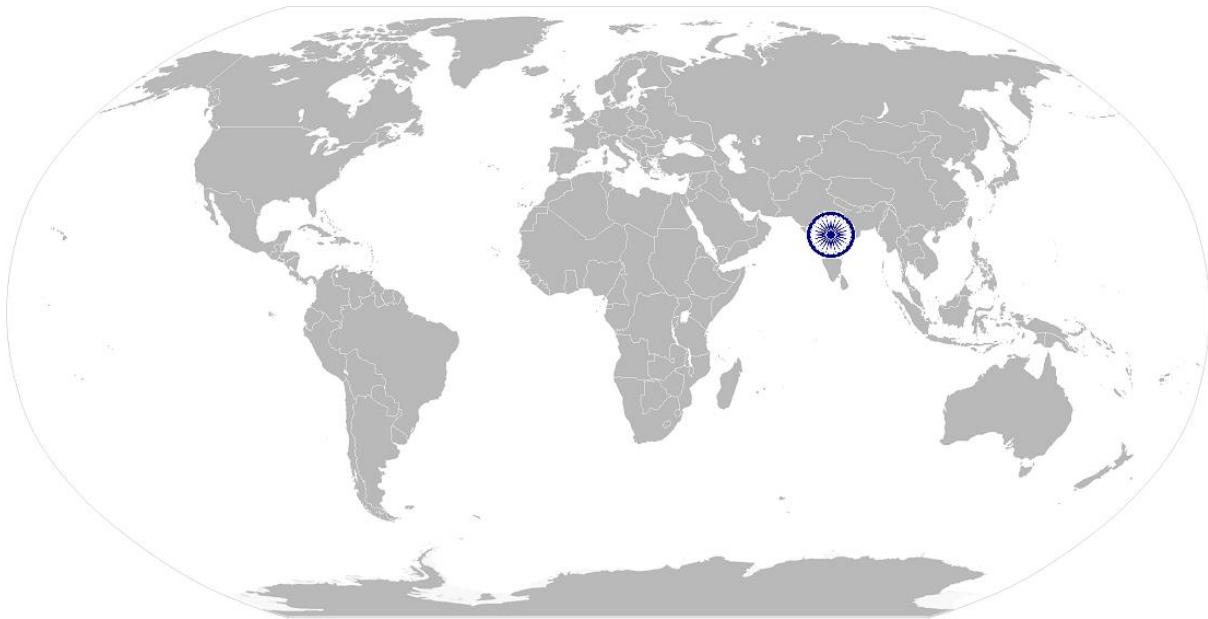
<b>Skills (S) [Optional]</b>	
<b>A. Core Skills/ Generic Skills</b>	<b>Communication skills</b> The individual on the job needs to know and understand how to: SA1. effectively communicate the danger
	<b>Organising skills</b> The individual on the job needs to know and understand how to: SA2. keep all 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 danger
	<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**

<b>NOS Code</b>	<b>G&amp;J/N9905</b>		
<b>Credits(NVEQF/NVQF/NSQF)</b>	<b>TBD</b>	<b>Version number</b>	<b>1.0</b>
<b>Industry</b>	<b>Gems &amp; Jewellery</b>	<b>Drafted on</b>	<b>29/05/13</b>
<b>Industry Sub-sector</b>	<b>Cast and diamond-set jewellery</b>	<b>Last reviewed on</b>	<b>30/07/13</b>
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Definitions

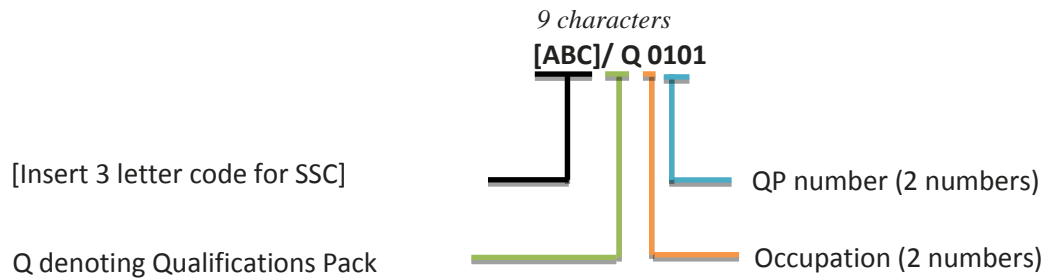
Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further 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
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

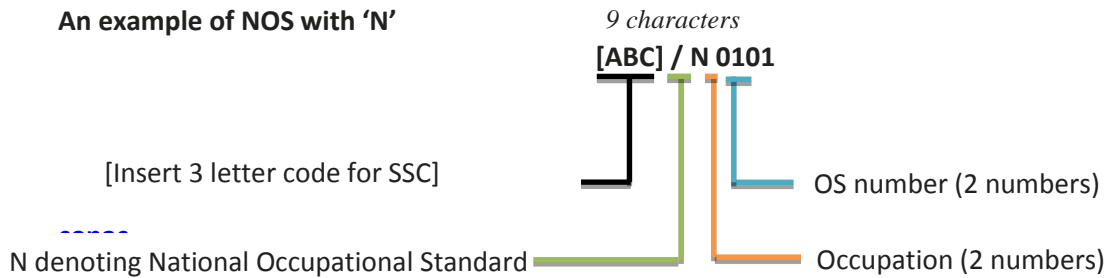
### Nomenclature for QP and NOS

#### Qualifications Pack



#### Occupational Standard

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



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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** Wax Tree Maker

**Qualification Pack** G&J/Q2601

**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.

		<b>Marks Allocation</b>			
		<b>Total Marks (80+20)</b>	<b>Out Of</b>	<b>Theory</b>	<b>Skills Practical</b>
1. G&J/N2601 Make the wax tree	PC1. select appropriate rubber base and central sprue	<b>75</b>	8	0	8
	PC2. select appropriate length of the sprue for the number of wax pieces		10	2	8
	PC3. assemble wax pieces according to instructions and standard operating procedure in terms of sequence, angle and spacing of the wax pieces		13	3	10
	PC4. timely deliver wax pieces to next process		5	0	5
	PC5. produce number of wax tree per day as per target given		5	0	5
	PC6. ensure damage free output with minimal hazards		5	0	5



	PC7. inspect all wax pieces, rubber base, nozzle and central sprue for imperfect surface finishing		10	2	8
	PC8. solder wax piece to central sprue without damaging wax pieces		13	3	10
	PC9. produce wax tree is quality okayed		6	0	6
		<b>Total</b>	<b>75</b>	<b>10</b>	<b>65</b>
2. G&J/N9901 Respect and maintain IPR	PC1. be able to spot plagiarism and report	<b>9</b>	3	2	1
	PC2. be aware of patents and IPR		4	1	3
	PC3. not be involved in IPR violations		2	1	1
		<b>Total</b>	<b>9</b>	<b>4</b>	<b>5</b>
3. G&J/N9902 Coordinate with others	PC1. understand the work output requirements	<b>8</b>	2	1	1
	PC2. comply with company policy and rule		1	0	1
	PC3. deliver quality work on time as required by reporting any anticipated reasons for delays		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
		<b>Total</b>	<b>8</b>	<b>3</b>	<b>5</b>
4. G&J/N9905 Maintain occupational health and safety	PC1. spot and report potential hazards on time	<b>8</b>	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
		<b>Total</b>	<b>8</b>	<b>3</b>	<b>5</b>