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.

introduction

qualifications pack - goldsmith: frame maker

sector: gems & jewellery

sub-sector: handmade gold and gems-set jewellery

occupation: goldsmith (basic)

reference id: g&j/q0604

aligned to: nco-2004/7313.28

Goldsmith - Frame maker: Goldsmith is also known as ‘Artisan’ or ‘Bench worker’ in Indian gold jewellery making industry. Goldsmith is an important job role.

Brief Job Description: The individual works, mainly, with machine and hand tools to create the base jewellery frame from gold as per design and for further embellishing with components, gemstones and enamelling and plating. The goldsmith is responsible for delivering quality gold jewellery with minimum gold or stone loss.

Personal Attributes: The job requires the individual to have: attention to details; good eyesight; steady hands; ability to work in a process driven team for long hours in sitting position; a lot of patience; and creativity. The individual must also be able to use reflective skills in order to develop improved designs and work processes, and analytical skills to avoid errors and hazards.
## Job Details

| Job Role                      | Goldsmith - Frame maker  
<table>
<thead>
<tr>
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<tbody>
<tr>
<td></td>
<td>Also known as ‘Artisan’ or ‘Bench-worker’</td>
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</tbody>
</table>

## Role Description

Converting precious metal bar or pieces into a complete jewellery frame of required size, weight and quality by employing the appropriate techniques for the product, adding components, while minimising hazards and working independently.

## NVEQF/NVQF level

4

### Minimum Educational Qualifications

Preferably 10th standard passed

### Maximum Educational Qualifications

Not Applicable

## Training

Not Applicable

## Experience

Not Applicable

### Applicable National Occupational Standards (NOS)

**Compulsory:**
1. G&J/N0605 Make the jewellery frame of gold or alloy
2. G&J/N9910 Maintain IPR and respect copyright
3. G&J/N9912 Coordinate with co-workers
4. G&J/N9914 Maintain safe work environment

**Optional:**
Not applicable

## Performance Criteria

As described in the relevant OS units
Overview

This unit is about the first step in handmade gold jewellery manufacturing, i.e., creating the base frame of gold jewellery for further adding components, embellishing and bejewelling, polishing and finishing.
### Unit Code
G&J/N0605

### Unit Title
Make gold jewellery frame of gold or alloy

### Description
This OS unit is about making the base frame of gold jewellery for further embellishing and finishing.

### Scope
The unit/task covers the following:

**Order metal and components for making frame**
- understand design specifications in terms of regional style applicable, types of alloy of gold, components and stones required; weight; entire jewellery making process flow, and delivery schedule
- assess quantity of gold required for frame based on product or style type and design
- assess quantity and types of components required for the frame

**Make the frame**
- roll or draw wire, sheet or strip from gold bar as per design requirement
- anneal the wire or strip for malleability by heat-treatment using gas torch or furnace, setting the temperature according to the thickness of the wire or sheet or strip, removing from heat and quenching in water to cool
- repeat the annealing process after every drawing or rolling
- cut and saw wire or sheet to make the frame piece
- create designs by stamping, embossing, scraping, as per design
- check symmetry of design
- lay the frame pieces on wax or lac and set in Plaster of Paris (PoP) mixture or customised jigs
- solder components and frame to link frame pieces as per design
- remove PoP, level and strengthen joints in wax or lac
- send completed frame for cleaning with brush and water or chemical solution

**File the frame parts or completed frame**
- understand design/specification requirements such as length, bend or flexibility, colour, evenness, melting point of alloy metal, size and embellishments to follow
- cut any sharp edges and grind for smooth surface
- shape collets for stone setting or prepare surface for enamelling
- smooth outer periphery surface as per design
- avoid over filing

**Link and smoothen the frame**
- solder locks and hinges as per design
- ensure correct distance between linked components
- avoid under or over soldering
### Make the jewellery frame of gold or alloy

**Control gold loss**
- collect gold dispersed during the day (dust and fragments)
- tally account as per allowed standards for the design
- conduct regular and controlled environment cleaning for collection

**Detect product defects**
- inform supervisor if a component has arrived with defect
- understand the type of defect and send to relevant goldsmith for rework
- suggest ways to rectify defect in order to save rework time

**Check quality and send frame for quality check (QC)**
- check filed frame, visually, in order to detect defects such as file marks, uneven surface, rough edge, loose links, unsoldered joints and impurities
- re-work as suggested by QC department
- re-file product returned from QC department with filing or design defects

**Return completed frame and gold to supervisor**
- return gold dust and filings to supervisor

**Report problems about**
- impractical design
- tools shortage and their maintenance related
- reasons for anticipated delays that may adversely affect delivery

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

<table>
<thead>
<tr>
<th>Element</th>
<th>Performance Criteria</th>
<th>Element</th>
<th>Performance Criteria</th>
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</thead>
<tbody>
<tr>
<td><strong>Ordering metal</strong></td>
<td>To be competent, the user/individual on the job must be able to:</td>
<td><strong>Making frame</strong></td>
<td>To be competent, the user/individual on the job must be able to:</td>
</tr>
<tr>
<td></td>
<td>PC1. accurately assess precious metal or alloy required as per design including</td>
<td></td>
<td>PC3. deliver in time to cleaning, polishing, buffing process</td>
</tr>
<tr>
<td></td>
<td>beginning weight, gold lost in subsequent processes, and end product weight</td>
<td></td>
<td>PC4. make accurate replica as per design with minimum rework</td>
</tr>
<tr>
<td></td>
<td>PC2. assess component types and quantities required</td>
<td></td>
<td>PC5. achieve weight, size and detailing dimensions as per design</td>
</tr>
<tr>
<td><strong>Filing and linking frame parts</strong></td>
<td>To be competent, the user/individual on the job must be able to:</td>
<td></td>
<td>PC6. achieve improved productivity per design type</td>
</tr>
<tr>
<td></td>
<td>PC8. achieve smooth finish and safe to wear ornament</td>
<td></td>
<td>PC7. complete wok with minimum hazards and accidents</td>
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<tr>
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<td>PC9. make strong but flexible joints</td>
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<td></td>
<td>PC10. achieve clean soldering without damage to frame</td>
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<tr>
<td></td>
<td>PC11. achieve improved productivity and quality as per design requirement</td>
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<tr>
<td><strong>Controlling gold loss</strong></td>
<td>To be competent, the user/individual on the job must be able to:</td>
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<td>PC12. maintain loss limit as per company’s loss margin policy</td>
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<td>PC13. undertake regular gold-dust cleaning as prescribed by company</td>
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<td>PC14. account for loss and maintain related documentation</td>
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<tr>
<td><strong>G&amp;J/N0605</strong></td>
<td><strong>Make the jewellery frame of gold or alloy</strong></td>
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</table>
| **Quality of output** | To be competent, the user/individual on the job must be able to:  
PC15. achieve size, weight, finish, detailing and dimensions as per design  
PC16. maintain utility factor maintained for ease of wearing and safety  
PC17. ensure that joints are firm and flexible and frame is even  
PC18. achieve QC-okayed base frame |
| **Handling problems** | To be competent, the user/individual on the job must be able to:  
PC19. deliver complete product on time by reporting problems faced or anticipated well in advance |
| **Knowledge and Understanding (K)** | The individual on the job needs to know and understand:  
**A. Organizational Context**  
(Knowledge of the company / organization and its processes)  
KA1. company’s policies on: acceptable limits of precious metal loss per product type; incentives; delivery standards; safety and hazards; integrity and IPR; and personnel management  
KA2. work flow involved in company’s jewellery manufacturing process from one goldsmith to another  
KA3. importance of the individual’s role in the workflow  
KA4. reporting structure  
KA5. typical customer profile and market trends  
**B. Technical Knowledge**  
The individual on the job needs to know and understand:  
KB1. different types of jewellery, e.g., regional styles, making techniques, new styles such as fusion.  
KB2. how components such as balls wire, stampings, and chains are made  
KB3. uses of different types of files and tools for different end results  
KB4. gold alloy properties such as strength, malleability  
KB5. annealing: heat treatments and intensity effect with respect to different types of gold alloys  
KB6. potential work hazards, particularly, when using hand and machine tools as well as acids  
KB7. chemical reactions between non-gold materials used |
| **Skills (S) [Optional]** | The user/individual on the job needs to know and understand how:  
**A. Core Skills/ Generic Skills**  
**Basic reading and writing skills**  
SA1. to read notes and put notes on design  
**Measuring and geometry skills**  
The user/individual on the job needs to know and understand how:  
SA2. to assess material requirements as per design  
SA3. to assess gold loss at each step of jewellery making so as to deliver product of correct weight and size  
SA4. to translate symmetry aspect of design into jewellery frame  
SA5. to translate flexibility and utility aspect of design into frame |
<table>
<thead>
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<th><strong>G&amp;J/N0605</strong></th>
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</table>
| **Teamwork and multitasking** | The individual on the job needs to know and understand how:  
SA6. to share work load as required  
SA7. to deliver frame to next work process on time |
| **B. Professional Skills** | **Reading design**  
The individual on the job needs to know and understand:  
SB1. how to convert design into frame  
SB2. components that go into making the exact product as customer ordered  
SB3. how to spot difficulties with respect to practicality of design |
| | **Wax and plaster setting technique**  
The individual on the job needs to know and understand how:  
SB4. to set the frame and components accurately in PoP and wax as per design  
SB5. to prepare plaster slurry of right temperature and set the frame  
SB6. to components and frame on wax or lac plate or jigs |
| | **Soldering technique**  
The individual on the job needs to know and understand how:  
SB7. to ensure right amount of heating in order to link the pieces |
| | **Using tools and machines**  
The user/individual on the job needs to know and understand how:  
SB8. to draw wire, roll sheets, cut shapes, make components, emboss and scrape as per design  
SB9. the rolling and drawing machines work  
SB10. to use the right file and at correct angle for achieving the finish as per design  
SB11. to solder in order to get strong links  
SB12. to use tools for drawing wire such as: Gas torch or furnace for annealing wire or strip; drawing tongs and draw plate; wax or oil for lubrication  
SB13. to use tools such as files and pliers  
SB14. to maintain tools and machines used  
SB15. to use technology such as computer for visual aid and efficient working  
SB16. to work in a safe environment, i.e., without injuries |
| | **Reducing precious metal loss**  
The user/individual on the job needs to know and understand:  
SB17. prescribed precious-metal loss for the entire jewellery piece  
SB18. precious-metal loss applicable for the components  
SB19. how to reduce precious metal loss below the prescribed standards  
SB20. how to collect broken or over rolled pieces, account in job sheet and return  
SB21. how to follow company’s policies on collecting gold dust and fragments  
SB22. how to suggest improvements in order to reduce precious metal loss limits |
| | **Reflective thinking**  
The user/individual on the job needs to know and understand how to:  
SB23. work in sitting or standing for long hours position with correct posture |
<table>
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<tr>
<td><strong>Critical thinking</strong></td>
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<td>The user/individual on the job needs to know and understand how:</td>
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<tr>
<td>SB24. maintain clean work environment and organise tools for ease of use</td>
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<td>SB25. to spot process disruptions and delays</td>
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<td>SB26. to avoid hazards when using roller machine or draw plate or during annealing</td>
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</table>

# G&J/N0605

Make the jewellery frame of gold or alloy

## NOS Version Control

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National Occupational Standard

Overview

This unit is about and respecting intellectual property rights (IPR) of the company’s products and designs and avoiding infringement on copyrights of others.
<table>
<thead>
<tr>
<th><strong>Unit Code</strong></th>
<th>G&amp;J/N9910</th>
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</thead>
<tbody>
<tr>
<td><strong>Unit Title (Task)</strong></td>
<td>Respect IPR of company as well as competitors</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>This OS unit is about maintaining company’s IPR and avoiding infringement on copyright of others</td>
</tr>
<tr>
<td><strong>Scope</strong></td>
<td>This unit/task covers the following:</td>
</tr>
</tbody>
</table>
|  | - Protect company’s Intellectual Property Rights (IPR)  
  - prevent leak of new designs to competitors by reporting on time  
  - be aware of any of company’s product or design patents  
  - report IPR violations observed in the market, to supervisor or company heads  
|  | Avoid infringement to copyright of other companies  
  - read copyright clause of the material published on the internet and any other printed material  
  - consult supervisor or senior management when in doubt about using publicly available information  
  - report any infringement observed in the company |

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

<table>
<thead>
<tr>
<th><strong>Element</strong></th>
<th><strong>Performance Criteria</strong></th>
</tr>
</thead>
</table>
| **Respecting IPR** | To be competent, the user/individual on the job must be able to:  
  PC1. spot plagiarism and report  
  PC2. understand rationale of patents and IPR  
  PC3. avoid being involved in IPR violations |

### Knowledge and Understanding (K)

#### A. Organizational Context

The individual on the job needs to know and understand:  
KA1. company’s policies on IPR, plagiarism and order leaks  
KA2. company’s patented products  
KA3. market trends and company’s unique product range  
KA4. reporting structure

#### B. Technical Knowledge

The individual on the job needs to know and understand:  
KB1. basics of patents and IPR laws  
KB2. how IPR protection is important for competitiveness of a company

### Skills (S) [Optional]

#### A. Core Skills/ Generic Skills

**Communication skills**  
The user/individual on the job needs to know and understand how:  
SA1. to effectively communicate any observed IPR violations or design leaks

#### B. Professional Skills

**Decision making**  
The user/individual on the job needs to know and understand when and how:  
SB1. to report sources of IPR violations
## Maintain IPR and respect copyright

<table>
<thead>
<tr>
<th>Reflective thinking</th>
<th>Critical thinking</th>
</tr>
</thead>
<tbody>
<tr>
<td>The user/individual on the job needs to know and understand how:</td>
<td>The user/individual on the job needs to know and understand how:</td>
</tr>
<tr>
<td>SB2. to learn from past mistakes and report IPR violations on time</td>
<td>SB3. to spot signs of violations and alert authorities in time</td>
</tr>
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</table>
## NOS Version Control

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</table>
Overview

This unit is about the artisan or bench worker’s level of communication with colleagues or clients. It determines the goldsmith’s ability to work as a team member, share work and multi-task in order to achieve the required deliverables on schedule.
**Unit Code**
G&J/N9912

**Unit Title**
Coordinate with co-workers

**Description**
This OS unit is about communicating with colleagues and seniors in order to maintain smooth and hazards free work flow.

**Scope**
This unit/task covers the following:

Interact with supervisor to:
- receive work instructions and raw materials from reporting supervisor
- communicate to reporting supervisor about process flow improvements, product defects received from previous process, repairs and maintenance of tools and machinery as required
- communicate any potential hazards or expected process disruptions
- handover completed work to supervisor

Interact with colleagues within and outside the department to:
- work as a team with colleagues and share work as per their or own work load and skills
- work with colleagues of other departments such as frame making or component making or polishing or setting or stores
- communicate and discuss work flow related difficulties in order to find solutions with mutual agreement
- receive feedback from QC and rework in order to complete work on time

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

<table>
<thead>
<tr>
<th>Element</th>
<th>Performance Criteria</th>
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</thead>
<tbody>
<tr>
<td><strong>Interaction with supervisor</strong></td>
<td>To be competent, the user/individual on the job must be able to:</td>
</tr>
<tr>
<td></td>
<td>PC1. understand the work output requirements</td>
</tr>
<tr>
<td></td>
<td>PC2. comply with company policy and rule</td>
</tr>
<tr>
<td></td>
<td>PC3. deliver quality work on time as required by reporting any anticipated reasons for delays</td>
</tr>
<tr>
<td><strong>Interactions with colleagues and other departments</strong></td>
<td>To be competent, the user/individual on the job must be able to:</td>
</tr>
<tr>
<td></td>
<td>PC4. put team over individual goals</td>
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<td></td>
<td>PC5. conflicts resolution and multi-tasking</td>
</tr>
</tbody>
</table>

### Knowledge and Understanding (K)

<table>
<thead>
<tr>
<th>A. Organizational Context</th>
<th>The individual on the job needs to know and understand:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Knowledge of the company / organization and its processes)</td>
<td>KA1. company's policies on personnel management</td>
</tr>
<tr>
<td></td>
<td>KA2. work flow involved in company's jewellery manufacturing process</td>
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<tr>
<td></td>
<td>KA3. importance of the individual's role in the workflow</td>
</tr>
<tr>
<td></td>
<td>KA4. reporting structure</td>
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</tbody>
</table>
# Coordinate with co-workers

<table>
<thead>
<tr>
<th>B. Technical Knowledge</th>
<th>The individual on the job needs to know and understand:</th>
</tr>
</thead>
<tbody>
<tr>
<td>KB1.</td>
<td>how to communicate effectively</td>
</tr>
<tr>
<td>KB2.</td>
<td>how to build team coordination</td>
</tr>
</tbody>
</table>

## Skills (S) [Optional]

### A. Core Skills/ Generic Skills

**Teamwork and some multitasking**

- The individual on the job needs to know and understand how:
  - SA1. to share work load as required
  - SA2. to deliver product to next work process on time

### B. Professional Skills

**Decision making**

- The individual on the job needs to know and understand:
  - SB1. how to report potential areas of disruptions to work process
  - SB2. when to report to supervisor and when to deal with a colleague depending on the type of concern

**Reflective thinking**

- The individual on the job needs to know and understand:
  - SB3. how to improve work process

**Critical thinking**

- The individual on the job needs to know and understand:
  - SB4. how to spot process disruptions and delays
NOS Version Control

<table>
<thead>
<tr>
<th>NOS Code</th>
<th>G&amp;J/N9912</th>
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</table>
Overview

This unit is about the artisan or bench worker’s commitment towards reporting potential hazards and containing accidents in order to make the work environment safe for self and colleagues.
# Maintain safe work environment

<table>
<thead>
<tr>
<th>Unit Code</th>
<th>G&amp;J/N9914</th>
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<tbody>
<tr>
<td><strong>Unit Title</strong></td>
<td>Work towards having a safe work environment</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>This OS unit is about being aware of and communicating potential hazards and dangers of accidents on the job</td>
</tr>
<tr>
<td><strong>Scope</strong></td>
<td>This unit/task covers the following:</td>
</tr>
</tbody>
</table>

- Understand potential sources of accidents
  - to avoid accidents related to use of potentially dangerous chemicals, gas torches, sharp tools and hazards from machines

- Communicate to reporting supervisor about:
  - process flow improvements to reduce anticipated or repetitive hazards
  - mishandling of tools, machines or hazardous materials
  - electrical problems that could result in accident

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

<table>
<thead>
<tr>
<th>Element</th>
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</tr>
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<tbody>
<tr>
<td>Understanding of potential sources of accidents and communicating</td>
<td>To be competent, the user/individual on the job must be able to:</td>
</tr>
<tr>
<td></td>
<td>PC1. spot and report potential hazards on time</td>
</tr>
<tr>
<td></td>
<td>PC2. follow company policy and rules regarding hazardous materials</td>
</tr>
<tr>
<td></td>
<td>PC3. deliver quality work on time as required by reporting any anticipated reasons for delays</td>
</tr>
</tbody>
</table>

## Knowledge and Understanding (K)

### A. Organizational Context (Knowledge of the company / organization and its processes)

- KA1. company’s policies on handling: harmful chemicals and sharp tools, safety and hazards of machines, fire safety and, disposal of harmful chemicals and materials
- KA2. work flow involved in company’s jewellery manufacturing process
- KA3. importance of the individual’s role in the workflow
- KA4. reporting structure

### B. Technical Knowledge

- KB1. how different chemicals react and what could be the danger from them
- KB2. how to use machines and tools without causing bodily harm
- KB3. fire safety education
- KB4. disposal of hazardous chemicals, tools and materials by following prescribed environmental norms or as per company policy

## Skills (S) [Optional]

### A. Core Skills/ Generic Skills

- Communication skills

  - SA1. to effectively communicate the danger
### B. Professional Skills

#### Decision making

The individual on the job needs to know and understand:

- **SB1.** importance of reporting potential sources of danger
- **SB2.** appropriate actions to be taken in the event of an accident
- **SB3.** procedure for disposing of hazardous materials, safely and following environmental guidelines

#### Reflective thinking

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

- **SB4.** to learn from past mistakes regarding use of hazardous machines or chemicals or gas torches

#### Critical thinking

The individual on the job needs to know and understand:

- **SB5.** how to spot danger
- **SB6.** procedure to follow in the event of a fire or other hazard
## NOS Version Control

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</tr>
<tr>
<td>Keywords /Terms</td>
<td>Description</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Sector</td>
<td>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.</td>
</tr>
<tr>
<td>Sub-sector</td>
<td>Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.</td>
</tr>
<tr>
<td>Occupation</td>
<td>Occupation is a set of job roles, which perform similar/ related set of functions in an industry.</td>
</tr>
<tr>
<td>Function</td>
<td>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.</td>
</tr>
<tr>
<td>Sub-function</td>
<td>Sub-functions are sub-activities essential to fulfil the achieving the objectives of the function.</td>
</tr>
<tr>
<td>Job role</td>
<td>Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.</td>
</tr>
<tr>
<td>Occupational Standards (OS)</td>
<td>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.</td>
</tr>
<tr>
<td>Performance Criteria</td>
<td>Performance criteria are statements that together specify the standard of performance required when carrying out a task.</td>
</tr>
<tr>
<td>National Occupational Standards (OS)</td>
<td>NOS are occupational standards which apply uniquely in the Indian context.</td>
</tr>
<tr>
<td>Qualifications Pack (QP)</td>
<td>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.</td>
</tr>
<tr>
<td>Unit Code</td>
<td>Unit code is a unique identifier for an Occupational Standard, which is denoted by an ‘N’</td>
</tr>
<tr>
<td>Unit Title</td>
<td>Unit title gives a clear overall statement about what the incumbent should be able to do.</td>
</tr>
<tr>
<td>Description</td>
<td>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.</td>
</tr>
<tr>
<td>Scope</td>
<td>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.</td>
</tr>
<tr>
<td>Knowledge and Understanding</td>
<td>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.</td>
</tr>
<tr>
<td>Organisational Context</td>
<td>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.</td>
</tr>
<tr>
<td>Technical Knowledge</td>
<td>Technical knowledge is the specific knowledge needed to accomplish</td>
</tr>
</tbody>
</table>
Qualifications Pack For Goldsmith – Frame Maker

| 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. |

<table>
<thead>
<tr>
<th>Keywords /Terms</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPR</td>
<td>Intellectual Property Rights</td>
</tr>
<tr>
<td>NOS</td>
<td>National Occupational Standard(s)</td>
</tr>
<tr>
<td>NVQF</td>
<td>National Vocational Qualifications Framework</td>
</tr>
<tr>
<td>NSQF</td>
<td>National Qualifications Framework</td>
</tr>
<tr>
<td>NVEQF</td>
<td>National Vocational Education Qualifications Framework</td>
</tr>
<tr>
<td>QP</td>
<td>Qualifications Pack</td>
</tr>
</tbody>
</table>
Qualifications Pack

[Insert 3 letter code for SSC]

Q denoting Qualifications Pack

Occupational Standard

An example of NOS with ‘N’

[Insert 3 letter code for SSC]

N denoting National Occupational Standard

Back to top...
The following acronyms/codes have been used in the nomenclature above:

<table>
<thead>
<tr>
<th>Sub-sector</th>
<th>Range of Occupation numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handmade gold and gems-set jewellery</td>
<td>01-20</td>
</tr>
<tr>
<td>Cast and diamond-set jewellery</td>
<td>21-40</td>
</tr>
<tr>
<td>Diamond processing</td>
<td>41-60</td>
</tr>
<tr>
<td>Gemstone processing</td>
<td>61-80</td>
</tr>
<tr>
<td>Jewellery retailing</td>
<td>81-98</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sequence</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three letters</td>
<td>Industry name</td>
<td>G&amp;J</td>
</tr>
<tr>
<td>Slash</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>Next letter</td>
<td>Whether QP or NOS</td>
<td>Q</td>
</tr>
<tr>
<td>Next two numbers</td>
<td>Occupation code</td>
<td>07</td>
</tr>
<tr>
<td>Next two numbers</td>
<td>OS number</td>
<td>02</td>
</tr>
</tbody>
</table>
**CRITERIA FOR ASSESSMENT OF TRAINEES**

**Job Role** Frame Maker

**Qualification Pack** G&J/Q0604

**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.

<table>
<thead>
<tr>
<th>PC</th>
<th>Total Marks (80+20)</th>
<th>Out Of Theory</th>
<th>Skills Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC1. Accurately assess precious metal or alloy required as per design including beginning weight, gold lost in subsequent processes, and end product weight</td>
<td>75</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>PC2. Assess component types and quantities required</td>
<td>75</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>PC3. Deliver in time to cleaning, polishing, buffing process</td>
<td>75</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>PC4. Make accurate replica as per design with minimum rework</td>
<td>75</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>PC5. Achieve weight, size and detailing dimensions as per design</td>
<td>75</td>
<td>4.5</td>
<td>4</td>
</tr>
<tr>
<td>PC6. Achieve improved productivity per design type</td>
<td>75</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>PC7. Complete work with minimum hazards and accidents</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>PC8. Achieve smooth finish and safe to wear ornament</td>
<td>5</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>PC9. Make strong but flexible joints</td>
<td>5</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>PC10. Achieve clean soldering without damage to frame</td>
<td>4</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>PC11. Achieve improved productivity and quality as per design requirement</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>PC12. Maintain loss limit as per company’s loss margin policy</td>
<td>5</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>PC13. Undertake regular gold-dust cleaning as prescribed by company</td>
<td>4</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>PC14. Account for loss and maintain related documentation</td>
<td>5</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>PC15. Achieve size, weight, finish, detailing and dimensions as per design</td>
<td>4</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>PC16. Maintain utility factor maintained for ease of wearing and safety</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>PC17. Ensure that joints are firm and flexible and frame is even</td>
<td>4.5</td>
<td>0.5</td>
<td>4</td>
</tr>
<tr>
<td>PC18. Achieve QC-okayed base frame</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>PC19. Deliver complete product on time by reporting problems faced or anticipated well in advance</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>75</strong></td>
<td><strong>10</strong></td>
<td><strong>65</strong></td>
</tr>
</tbody>
</table>

2. G&J/N9910 Maintain IPR and respect copyright

<p>| PC1. Spot plagiarism and report | 9 | 4 | 2 | 2 |</p>
<table>
<thead>
<tr>
<th>Qualifications Pack for Frame Maker</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PC2. Understand rationale of patents and IPR</strong></td>
</tr>
<tr>
<td><strong>PC3. Avoid being involved in IPR violations</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
<tr>
<td><strong>PC1. Understand the work output requirements</strong></td>
</tr>
<tr>
<td><strong>PC2. Comply with company policy and rule</strong></td>
</tr>
<tr>
<td><strong>PC3. Deliver quality work on time as required by reporting any anticipated reasons for delays</strong></td>
</tr>
<tr>
<td><strong>PC4. Put team over individual goals</strong></td>
</tr>
<tr>
<td><strong>PC5. Conflicts resolution and multi-tasking</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
<tr>
<td><strong>PC2. Follow company policy and rules regarding hazardous materials</strong></td>
</tr>
<tr>
<td><strong>PC3. Deliver quality work on time as required by reporting any anticipated reasons for delays</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>