



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR GEMS & JEWELLERY INDUSTRY



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Introduction

Qualifications Pack-Production Manager (Handmade Jewellery)

SECTOR: GEMS & JEWELLERY

SUB-SECTOR: Handmade gold and gems-set jewellery

OCCUPATION: Managing (Company)

REFERENCE ID: G&J/Q0101

Production Manager: Also known as 'Head Job-work' or 'Manager', the Production Manager of the company is responsible for planning and overseeing the production of jewellery.

ALIGNED TO: NCO-2004/NIL

Brief Job Description: The individual at work needs to understand the requirements of customers, plan and monitor the production process, coordinate with other department of the unit and ensure that quality product is delivered on time and as per order.

Personal Attributes: The job requires the individual to have: attention to details; strategic thinking; ability to manage a process driven team and leadership qualities. The individual must have ability to motivate and manage team.

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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Qualifications Pack Code	G&J/Q0101		
Job Role	Production Manager		
Credits(NSQF)	TBD	Version number	1.0
Sector	Gems & Jewellery	Drafted on	25/08/13
Sub-sector	Handmade and Gems-set Jewellery	Last reviewed on	13/08/14
Occupation	Managing (company)	Next review date	12/08/15

Job Role	Production Manager Also known as 'Head Job-work', 'Manager'		
Role Description	Understanding the demand requirement of customers; planning and monitoring production process; coordinating with other departments; ensuring quality check of the finished product and delivery of jewellery on time as per order.		
NSQF level	7		
Minimum Educational Qualifications Minimum: Graduate			
Maximum Educational Qualifications	Preferable: Diploma - Business Management		
Training	Not Applicable		
Experience	Minimum 3 years in Production Planning		
Applicable National Occupational Standards (NOS)	Compulsory: 1. G&J/N0101 Plan and manage production process 2. G&J/N9910 Maintain IPR and respect copyright 3. G&J/N9913 Interact with colleagues and team 4. G&J/N9914 Maintain safe work environment Optional: Not applicable		
Performance Criteria	As described in the relevant OS units		

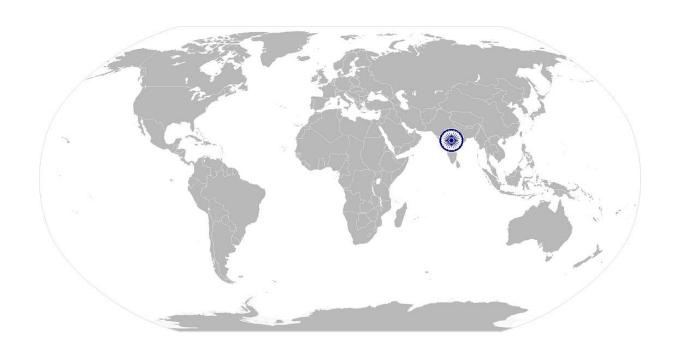






Plan and manage production process

National Occupational Standard



Overview

This unit is about assessing the customers' requirements, plan and monitor the production process for delivery of finished jewellery on time. This also includes coordinating with the heads of different departments in the unit, organising training and equipment for team, ensuring quality of the products manufactured and taking measures to avoid accidents and appraising the team performance.







Unit Code	G&J/N0101		
Unit Title (Task)	Plan and monitor production process		
Description	This OS unit is about planning and managing the production process and enable timely shipments to clients by recruiting the team and managing it along with the production process and planning.		
Scope	 This unit/task covers the following: Understand the production schedule and customer's requirements Plan the production process Ensure smooth production process Monitor and execute the production process Record the production data Maintain the locker in the unit Maintain pre-delivery standards Control precious metal loss 		
	 Manage the human resource and assess their performance Rectify problems 		

Performance Crite	ia(PC)	w.r.t.	the Sco	pe
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Element	Performance Criteria		
Planning production	To be competent, the user/individual on the job must be able to:		
process and monitor	PC1. understand customer's requirement as passed on by the marketing and sales		
	team		
	PC2. design of the jewellery to decide on in-house manufacturing versus outsourcing		
	PC3. ensure quality, time of delivery, payment terms		
	PC4. ensure availability of raw materials and teams required		
	PC5. plan the time required for executing the work by calculating man hours		
	required to finish the work		
	PC6. interact with different department heads to firm up the plan		
	PC7. calculate the time required and finalise the production plan		
	PC8. allocate work and procurement schedule		
	PC9. critical products or requirements		
	PC10. gold quality procured i.e., karatage of gold is as per requirement		
	PC11. arrange for all supplies, tools and consumables		
	PC12. assess human resources and skills		
	PC13. take corrective action required for anticipated or actual problems and delays		
	PC14. undertake machine maintenance, hazards and accidents		
	PC15. achieve target movement from one department to another as planned		
	PC16. arrange for assaying of gold and jewellery as per customer requirement in		
	approved testing centre		
	PC17. allocate work requirement to each department heads / supervisor		
	PC18. ensure that right tools and equipment are used for the purpose		







	PC19. ensure adherence to job sheet schedule and requirements PC20. motivate workers to achieve the planned production output PC21. conduct random quality checks at different stages PC22. assist on production when there is a technical issue PC23. ensure daily production target is met
Maintain inventory and production records	To be competent, the user/individual on the job must be able to: PC24. record the daily and production activities of the unit PC25. keep track of gold and consumables given to each department and received PC26. record the delivery date from each department PC27. monitor locker movements and interact with locker manager PC28. check records of finished jewellery placed in safe locker PC29. check records of inventory of all raw material and components stored PC30. ensure the jewellery is packed as per the company's policy PC31. ensure jewellery hallmarking PC32. ensure company's stamp on jewellery manufactured
Achieving productivity	To be competent, the user/individual on the job must be able to: PC33. understand the customers' requirements of jewellery in terms of design, quality, time of delivery, etc. PC34. decide on accepting the work order from customer PC35. plan the production process and move the production smoothly from one department to another PC36. deliver the jewellery goods to customer with expected quality PC37. avoid delay in delivery of goods to customer PC38. ensure all terms and conditions of the agreement with the customer is followed during production PC39. limit gold loss during production of jewellery PC40. ensure that precious metal dust or fragments dispersed during the day is collected by the workers properly PC41. tally account as per allowed standards of gold loss PC42. conduct regular cleaning for collection of gold as per company policy PC43. train the workers on working effectively with control on gold loss PC44. ensure that production all jewellery order results in profit for the company PC45. complete work with minimum hazards and accidents
Handling problems	To be competent, the user/individual on the job must be able to: PC46. avoid process disruptions / delays and deliver goods on time PC47. handle technical issues during production and provide solution PC48. take corrective actions during human resource shortage, problem in machines, etc. PC49. address machine failure reported PC50. arrange for fulfilling tools shortage and their maintenance related issues PC51. avoid reasons for anticipated delays that may adversely affect delivery PC52. return and replace poor quality of gold received







Managing human To be competent, the user/individual on the job must be able to:				
resources	PC53. train human resources on processes			
	PC54. allocated work to human resources and detail on work expected out of them			
	PC55. maintain record of their production in terms of quantity and quality			
	PC56. assess the skill and achievement of worker as per their output			
	PC57. recommend for recognition or training as per their performance			
	PC58. understand and resolve human resource conflicts in the unit			
	PC59. assess the performance of department supervisors in the unit			
Knowledge and Unders	standing (K)			
A. Organizational	The individual on the job needs to know and understand:			
Context	KA1. company's policies on: acceptable limits of precious metal loss per product			
(Knowledge of the	type, delivery timelines, safety and hazards, integrity and IPR, and personnel			
company /	management			
	KA2. work flow involved in jewellery manufacturing process of the company			
organization and	KA3. management of worker, quality and productivity			
its processes)	KA4. conflict resolution and problem solving			
	KA5. performance appraisal			
	KA6. reporting structure			
	KA7. company's budgeting, financial and pricing policy			
B. Technical	The user/individual on the job needs to know and understand:			
Knowledge	KB1. jewellery making process and different types of jewellery			
	KB2. machine and tools requirement for jewellery making			
	KB3. skilled worker from different region in the country to work on specialised			
	jewellery making			
	KB4. different methods and techniques involved in making the jewellery			
	KB5. making components and frames for jewellery			
	KB6. soldering techniques in jewellery making			
	KB7. different cleaning and polishing methods and their purpose			
	KB8. consumables used in different process of jewellery making and their usage			
	purpose			
	KB9. different type of gemstones and setting techniques			
	KB10. potential work hazards while using high speed rotating machines and			
	chemicals			
	KB11. assaying methods to determine purity of gold			
	KB12. accounting of jewellery and documentation			
	KB13. human resource management			
	KB14. team management			
	KB15. potential work hazards, particularly, when using hand and machine tools			
	KB16. operate computer system and software packages to document production			
	data and analyse			







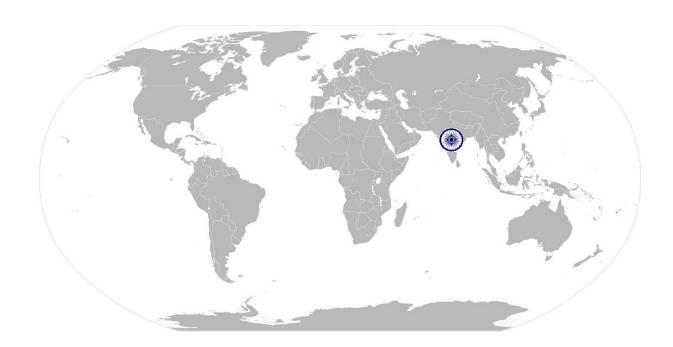
Skills (S) [Optional]	
A. Core Skills/	Basic reading and writing skills
Generic Skills	The user/individual on the job needs to know and understand how: SA1. to read documents, agreement and design of jewellery SA2. to record and document production of jewellery in the unit
	Calculation skills
	The user/individual on the job needs to know and understand how: SA3. to plan for periodic production SA4. to assess the number of human resource required for design
	SA5. to assess the gold loss in each process
	SA6. to calculate the productivity and do analysis on production data
	Team management
	The user/individual on the job needs to know and understand how: SA7. to distribute work equitably and according to seniority and experience of worker SA8. to encourage workers to share workload and deliver on time SA9. to assess worker requirements in terms of training, tools, machinery, workspace and other facilities SA10. to appraise based on company's standards and workers' performance SA11. to encourage workers to multitask and work on different types of jewellery as
	per their requirement
B. Professional Skills	Communication skills The individual on the job needs to know and understand how to: SB1. give appropriate instructions and feedback to different levels of workers under his supervision SB2. educate about safety and work hazards SB3. train on gold loss, productivity and correct steps to follow on the job SB4. inform about IPR issues pertaining to the company and detecting violations SB5. resolve inter-personal conflicts between workers and co-workers
	Using tools and machines
The user/individual on the job needs to know and understand how: SB6. to use different types of tools and machines are used for jewelle different stages and what precautions are required in operating of desired outcome and safety SB7. to work in a safe environment, i.e., without injuries	
	Reflective thinking
	The user/individual on the job needs to know and understand how to: SB8. improve work processes for greater productivity SB9. reduce gold loss SB10. improve quality of output SB11. Increase profitability of the company







Critical thinking
The user/individual on the job needs to know and understand how: SB12. to decide on the work can be executed with the available resources SB13. to spot process disruptions and delays SB14. to take corrective actions during issues in production









Plan and manage production process

NOS Version Control

NOS Code	G&J/N0101		
Credits(NSQF) [OPTIONAL]	ТВО	Version number	1.0
Industry	Gems & Jewellery	Drafted on	25/08/13
Industry Sub-sector	Handmade Gold and Gems-set Jewellery	Last reviewed on	13/08/14
		Next review date	12/08/15



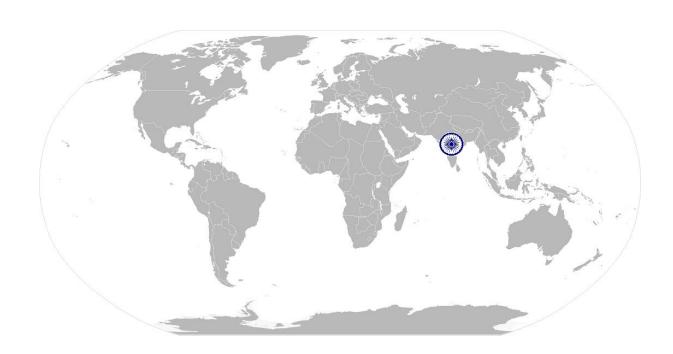




G&J/N9910 Maintain IPR and respect copyright



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.







G&J/N9910 Maintain IPR and respect copyright

G&J/N9910	Maintain IPR and respect copyright		
Unit Code	G&J/N9910		
Unit Title (Task)	Respect IPR of company as well as competitors		
Description	This OS unit is about maintaining company's IPR and avoiding infringement on copyright of others		
Scope	This unit/task covers the following:		
	Protect company's Intellectual Property Rights (IPR)		
	Avoid infringement to copyright of other companies		
Performance Criteria(P	C) w.r.t. the Scope		
Element	Performance Criteria		
Respecting IPR Knowledge and Unders	To be competent, the user/individual on the job must be able to: PC1. prevent leak of new designs to competitors by reporting on time PC2. spot any infringement of company's product or design patents PC3. report IPR violations observed in the market, to supervisor or company heads PC4. read copyright clause of the material published on the internet and any other printed material PC5. consult supervisor or senior management when in doubt about using publicly available information PC6. report any infringement observed in the company PC7. spot plagiarism and report PC8. understand rationale of patents and IPR PC9. avoid being involved in IPR violations		

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	The individual on the job needs to know and understand:		
Knowledge	KB1. basics of patents and IPR laws KB2. how IPR protection is important for competitiveness of a company		
	RB2. How it it protection is important for competitiveness of a company		
Skills (S) [Optional]			
A. Core Skills/	Communication skills		
Generic Skills	The user/individual on the job needs to know and understand how:		
B. Professional Skills	SA1. to effectively communicate any observed IPR violations or design leaks Decision making		
2. T. O. COSTOTIAL SKIIIS	The user/individual on the job needs to know and understand when and how: SB1. to report sources of IPR violations		







G&J/N9910 Maintain IPR and respect copyright

 Traintain 11 11 and 1 espect copyright	
Reflective thinking	
The user/individual on the job needs to know and understand how:	
SB2. to learn from past mistakes and report IPR violations on time	
Critical thinking	
The user/individual on the job needs to know and understand how:	
SB3. to spot signs of violations and alert authorities in time	







Maintain IPR and respect copyright

NOS Version Control

NOS Code	G&J/N9910		
Credits(NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Gems & Jewellery	Drafted on	25/08/13
Industry Sub-sector	Handmade Gold and Gems-set Jewellery	Last reviewed on	13/08/14
		Next review date	12/08/15



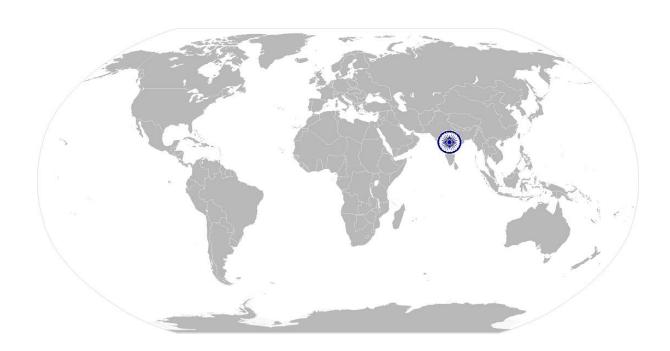






Interact with customers and colleagues

National Occupational Standard



Overview

This unit is about level of communication with colleagues or clients. It determines the Supervisor or Manager's ability to work as a team in order to achieve the required deliverables on schedule.







Interact with customers and colleagues

G&J/N9913	Interact with customers and colleagues		
Unit Code	G&J/N9913		
Unit Title (Task)	Interact with colleagues and team members		
Description	This OS unit is about communicating with colleagues and seniors in order to maintain smooth and hazard-free work flow		
Scope	This unit/task covers the following:		
	 Interact with Seniors, Production Manager and others Interact with colleagues 		
Performance Criteria(P			
	1		
Element	Performance Criteria		
Interaction with seniors	To be competent, the user/individual on the job must be able to: PC1. receive or give work-flow instructions and quality standards PC2. communicate about process flow improvements PC3. communicate any potential hazards or expected disruptions PC4. understand the work output requirements PC5. comply with company policy and rule PC6. deliver quality work on time as required by reporting any anticipated reasons		
	for delays		
Interactions with colleagues and other departments	To be competent, the user/individual on the job must be able to: PC7. work as a team with colleagues and seniors PC8. share skills and train PC9. communicate and discuss work flow related difficulties in order to find solutions with mutual agreement PC10. receive feedback and address concerns in order to complete work on time PC11. put team over individual goals PC12. resolve conflicts and multi-task		
Knowledge and Unders	standing (K)		
A. Organizational Context (Knowledge of the company / organization and its processes)	The individual on the job needs to know and understand: KA1. company's policies on personnel management 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	The individual on the job needs to know and understand: KB1. how to communicate effectively KB2. how to build team coordination		
Skills (S) [Optional]			
A. Core Skills/	Teamwork and some multitasking The individual on the job needs to know and understand how:		







G&J/N9913	Interact with customers and colleagues	
Generic Skills	SA1. to motivate team to work	
	SA2. to convince seniors about significant process changes	
	SA3. to share work load as required	
	SA4. 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 senior 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	







Interact with customers and colleagues

NOS Version Control

NOS Code	G&J/N9913		
Credits(NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Gems &Jewellery	Drafted on	25/08/13
Industry Sub-sector	Handmade Gold and Gems-set Jewellery	Last reviewed on	13/08/14
		Next review date	12/08/15

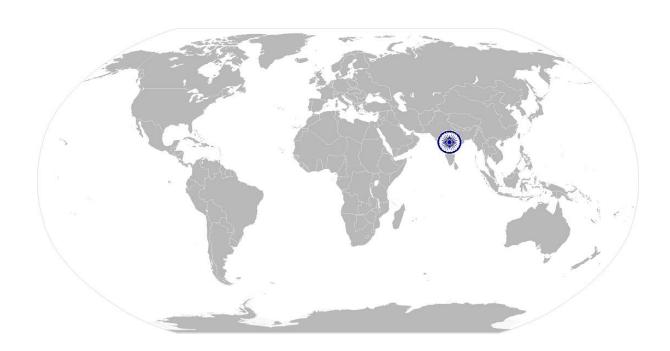






Maintain safe work environment

National Occupational Standard



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

Unit Code	G&J/N9914		
Unit Title (Task)	Work towards having a safe work environment		
Description	This OS unit is about being aware of and communicating potential hazards and dangers of accidents on the job		
Scope	This unit/task covers the following:		
	 Understand potential sources of accidents 		
	Communicate to reporting supervisor about hazards in time		
Performance Criteria(P	C) w.r.t. the Scope		
Element	Performance Criteria		
Understanding of potential sources of accidents and communicating Knowledge and Unders			
A. Organizational	The individual on the job needs to know and understand:		
Context	KA1. company's policies on handling: harmful chemicals and sharp tools, safety and hazards of machines, fire safety and, disposal of harmful chemicals and		
(Knowledge of the	materials		
company / organization and	KA2. work flow involved in company's jewellery manufacturing process		
its processes)	KA3. importance of the individual's role in the workflow KA4. reporting structure		
·	KA4. Teporting structure		
B. Technical	The individual on the job needs to know and understand:		
Knowledge	KB1. how different chemicals react and what could be the danger from them		
	KB2. how to use machines and tools without 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/	Communication skills		
Generic Skills	The individual on the job needs to know and understand how:		
	SA1. to effectively communicate the danger		







Maintain safe work environment

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. process for disposing of hazardous materials, safely and following			
	environmental guidelines			
	Deflective thinking			
	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. procedures to follow in the event of a fire or other hazard			







Maintain safe work environment

NOS Version Control

NOS Code	G&J/N9914		
Credits(NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Gems & Jewellery	Drafted on	25/08/13
Industry Sub-sector	Handmade Gold and Gems-set Jewellery	Last reviewed on	13/08/14
		Next review date	12/08/15





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

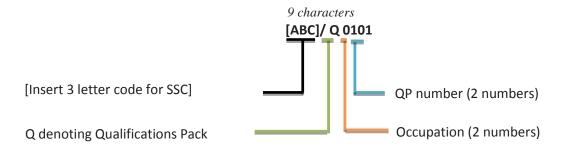




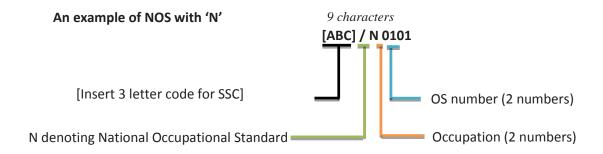
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard



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

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

Sequence	Description	Example
Three letters	Industry name	G&J
Slash	/	/
Next letter	Whether Q P or N OS	Q
Next two numbers	Occupation code	07
Next two numbers	OS number	02

Qualifications Pack For Production Manager



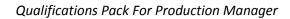


CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Qualification Pack Sector Skill Council Production Manager Production Manager 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/N0101 Plan and manage production process	Productivity	PC1. accurately understand the customers' requirements of jewellery in terms of design, quality, time of delivery, etc.	0	7
		PC2. decide on accepting the work order from customer	0	7
		PC3. plan the production process and move the production smoothly from one department to another	1	7
		PC4. deliver the jewellery goods to customer with expected quality	1	6
		PC5. avoid delay in delivery of goods to customer	1	6
		PC6. ensure all terms and conditions of the agreement with the customer is followed during production	0	6
		PC7. limit gold loss during production of jewellery	2	5
		PC8. ensure that production all jewellery order results in profit for the company	1	5
		PC9. complete work with minimum hazards and accidents	0	5
	Handling problems	PC10. avoid process disruptions / delays and deliver goods on time	1	3
		PC11. handle technical issues during production and provide solution	1	3
		PC12. take corrective actions during human resource shortage, problem in machines, etc	1	3
	Managing human resources	PC13. train human resources on processes	1	3
		PC14. assess the performance of department supervisors and workers in the unit	1	3
		PC15. resolve human resource issues in the unit and ensure smooth production process	1	1
		Sub Total	12	70
2. G&J/N1901 Maintain IPR and respect copyright	Respecting IPR	PC1. Spot plagiarism and report	0	1
		PC2. understand rationale of patents and IPR	0	1
		PC3. avoid being involved in IPR violations	0	1
		Sub Total	0	3
3. G&J/N1905 Interact with colleagues and team	Interaction with supervisor	PC1. understand the work output requirements	1	2
		PC2. comply with company policy and rule	1	1
		PC3. deliver quality work on time as required by reporting any anticipated	0	1







CRITERIA FOR ASSESSMENT OF TRAINEES						
		reasons for delays				
	Interactions with	PC4. put team over individual goals	0	0		
	colleagues and other departments	PC5. conflicts resolution and multi-tasking	0	1		
		Sub Total	2	5		
4. G&J/N1907 Maintain safe work environment	Understanding of	PC1. spot and report potential hazards on time	2	0		
	potential sources of	PC2. follow company policy and rules regarding hazardous materials	2	1		
	accidents and communicating	PC3. deliver quality work on time as required by reporting any anticipated reasons for delays	2	1		
		Sub Total	6	2		
		Total	20	80		

