

MODEL CURRICULUM

Solderer - Imitation Jewellery

SECTOR: GEMS & JEWELLERY
SUB-SECTOR: IMITATION JEWELLERY
OCCUPATION: SOLDERING
REF ID: G&J/Q1401, V1.0
NSQF LEVEL: 3



Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

GEM & JEWELLERY SECTOR SKILL COUNCIL OF INDIA

for the

MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/ Qualification Pack: **'Solderer - Imitation Jewellery'**
QP No. **'G&J/Q1401 NSQF Level 3'**

Date of Issuance: **November 10th, 2017**

Valid up to: **November 10th, 2021**

* Valid up to the next review date of the Qualification Pack


Mr. Premkumar Kothari
Chairman
(Gem & Jewellery Skill Council of India)

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Solderer- Imitation Jewellery

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Solderer- Imitation Jewellery”, in the “Gems & Jewellery” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Solderer- Imitation Jewellery		
Qualification Pack Name & Reference ID.	G&J/Q1401, v1.0		
Version No.	1.0	Version Update Date	10-11-2017
Pre-requisites to Training	Not Applicable		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Solder Imitation jewellery pieces and accessories: Focus on the customers' need to give them high precision jewellery and accessories as per their demand by soldering the products. • Coordinate with co-workers: Communicate with colleagues or clients to work as a team and multitask and communicate with colleagues. • Maintain safe work environment: Report potential hazards and contain accidents in order to make the work environment safe for self and colleagues. 		

This course encompasses 3 out of 3 National Occupational Standards (NOS) of “Solderer- Imitation Jewellery” Qualification Pack issued by “Gem & Jewellery Skill Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Soldering Imitation jewellery pieces and accessories</p> <p>Theory Duration (hh:mm) 25:00</p> <p>Practical Duration (hh:mm) 165:00</p> <p>Corresponding NOS Code G&J/N1401</p>	<ul style="list-style-type: none"> To check and identify the area to be soldered To Align and weld the component part or assembly at the precise location To solder jewellery and accessories using the soldering tools and equipment To detect product defects To control damages to the product To achieve timely delivery of product as per target To check quality outcome To report problems To achieve quality production To maintain quality standards of company 	<p>Mandatory – Whiteboard, Whiteboard Markers, Notepads, Pens, Blank Job Sheets, Samples of Common Metals Used in Imitation Jewellery Manufacturing Including Copper, Lead, Tin, Nickel, Steel, Zinc, Brass, Blank Job Sheets Sample Job Sheet with All Requirements Filled in, Different Types of Jewellery Samples (As Per Participant Handbook), Metal Cutter, Plier, Measuring Gauge, Soldering Pick Soldering Iron Stand, Soldering Wire, Tweezer, Flame Torch, Soldering Block, Fire Block, Pickling Solution Tweezers, Water Bowl, Cleaning Cloth, Tray, Protective Eye Wear, Table Lamp, Electric Tape, Solder, Flux, 4 Small Metal Sheets Per Student, Work Bench with chair</p> <p>Optional – Computer or Laptop Attached to LCD Projector,</p>

Trainer Prerequisites for Job role: “Solderer – Imitation Jewellery” mapped to Qualification Pack: “G&J/Q1401, v1.0”

Sr. No.	Area	Details
1	Job Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “G&J/Q1401”, Version 1.0.
2	Personal Attributes	Aptitude for conducting training, and pre/post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well-organised and focused, eager to learn and keep oneself updated with the latest in the mentioned field.
3	Minimum Educational Qualifications	12 th standard pass
4a	Domain Certification	Certified for Job Role: <u>Solderer – Imitation Jewellery</u> mapped to QP: “G&J/1401, v1.0”. Minimum accepted score as per SSC guidelines is 80% on the SSC prescribed online theory assessment test based on an industry validated question bank.
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: “Trainer”, mapped to the Qualification Pack: “SSC/1402”. Minimum accepted score for the trainers is 80% as per respective SSC guidelines.
5	Experience	The minimum experience required is 5 years in QC/ trainer/ manager/ team leader/ supervisor Solderer.

Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Solderer – Imitation Jewellery
Qualification Pack	G&J/Q1401, v1.0
Sector Skill Council	Gem & Jewellery Skill Council of India

Sr. No.	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	Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4	Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
6	To pass the Qualification Pack , every trainee should score a minimum of 50% of aggregate marks to successfully clear the assessment.
7	In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Assessment outcomes	Assessment Criteria for outcomes	Marks Allocation			
		Total Mark (80+20)	Out of	Theory	Skills Practical
1.G&J/N1401 Soldering Imitation jewellery pieces and accessories	PC1. Collect jewellery pieces and inspect for any imperfections or defects such as broken parts, excess metal etc.	60	5	0	5
	PC2. Check and identify the area to be soldered		5	0	5
	PC3. Prepare metal and add flux		5	2	3
	PC4. Torch the metal and quench it		10	5	5
	PC5. Handle soldering iron carefully		3	0	3
	PC6. Minimize damage to the product while working		3	0	3
	PC7. Align and weld the component part or assembly at the precise location		5	0	5
	PC8. Deliver jewellery pieces/ accessories to next process timely		5	0	5
	PC9. Deliver defect free and evenly set jewellery pieces/ accessories		4	0	4
	PC10. Deliver maximum number of Quality Control certified pieces/ accessories		5	1	4
	PC11. Rework on the product returned from QC		5	1	3
	PC12. Deliver complete jewellery/ accessories on time by reporting problems faced or anticipated well in advance		5	1	5
	Sub Total		60	10	50
2. G&J/ N9904 Coordinate with co-workers	PC1. Understand the work output requirements and work accordingly	20	5	1	4

	PC2. Comply with company policy end rules and work accordingly		5	1	4
	PC3. Deliver quality work on time as required by reporting any anticipated reasons for delay		3	1	2
	PC4. Put team over individual goals and work with team		3	1	2
	PC5. Resolve conflicts and multi-task		4	1	3
	Sub Total		20	5	15
3. G&J/N9905 Maintain safe work environment	PC1. Spot and report potential hazards on time	20	2	1	1
	PC2. Follow company policy and rules regarding use of hazardous materials while working		2	0	2
	PC3. Attend and actively participate in the health and safety campaigns organised by the company		2	1	1
	PC4. Follow process flow improvements that can reduce anticipated or repetitive hazards		2	0	2
	PC5. Stay away from electrical problems that could result in accident		2	0	2
	PC6. Understand which safety gear must be used for a particular task and use it accordingly		2	0	2
	PC7. Attend fire drills organised by the company or industrial zone		2	1	1
	PC8. Learn to use first aid procedure		2	0	2
	PC9. Be alert about designated assembly area in the event of an emergency and use when required		2	0	2
	PC10. Understand and follow the evacuation procedure properly during a fire		2	1	1
	Sub Total		20	4	16
	Grand Total	100	100	20	80
	Percentage Weightage:			20%	80%
	Minimum Pass% to qualify (aggregate):			50%	