







MODEL CURRICULUM

Spot Welder-Imitation Jewellery

SECTOR: GEMS & JEWELLERY

SUB-SECTOR: IMITATION JEWELLERY

OCCUPATION: WELDING

REF ID: G&J/Q1403, 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: <u>'Spot Welder - Imitation Jewellery'</u> QP No. <u>'G&J/Q1403 NSQF Level 3'</u>

Date of Issuance: November 10th, 2017
Valid up to: November 10th, 2021

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

Pylinkman Kothan

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









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Spot Welder- Imitation Jewellery

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "<u>Spot Welder- Imitation Jewellery</u>", in the "<u>Gems & Jewellery</u>" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Spot Welder- Imitation Jewellery				
Qualification Pack Name & Reference ID.	G&J/Q1403, v1.0				
Version No.	1.0 Version Update Date 10-11-2017				
Pre-requisites to Training	Not Applicable				
Training Outcomes	Operate sport Operate the of copper disoldering in ju Understand Change coppieces and an or clients to with colleagu Maintain saft and contain a	After completing this programme, participants will be able to: • Operate spot welding machine in Imitation jewellery Operate the spot welding machine fitted with different size of copper diodes in Imitation jewellery and conduct spot soldering in jewellery pieces and accessories.			









This course encompasses $\underline{4}$ out of $\underline{4}$ National Occupational Standards (NOS) of " $\underline{\text{Spot Welder-Imitation Jewellery}}$ " Qualification Pack issued by " $\underline{\text{Gem \& Jewellery Skill Council of India}}$ ".

Sr.			Equipment
No.	Module	Key Learning Outcomes	Required
1	Operate spot welding machine in Imitation jewellery Theory Duration (hh:mm) 20:00 Practical Duration (hh:mm) 160:00 Corresponding NOS Code G&J/N1404	To spot weld jewellery using the spot welding machines 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	Mandatory – Whiteboard, 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 etc., Blank Job Sheets Sample Job Sheet with All Requirements Filled in, Different Types of Jewellery Samples (As Per Participant Handbook), Samples of, Spot Welding Machine with chairs Metal Wire, Copper Diode, Metal Cutter, Plier, Measuring Guage, Protective Eye Wear, Table Lamp, Cleaning Cloth, Tray, Screw Driver, Electric Tape, Foot Pedal, Metal Wire, Tweezers, 50 Jewellery Pieces Per Student Optional — Computer or Laptop Attached to LCD Projector
2	Understand and change copper diodes	 To identify and use appropriate copper diodes as per the job 	Mandatory – Whiteboard,
	as per the job	To change copper diodes as per	Whiteboard
	P	job requirement	Markers,
	Theory Duration	, 1	Notepads, Pens,









Sr. No.	Module	Key Learning Outcomes	Equipment Required
	(hh:mm) 02:00 Practical Duration (hh:mm) 08:00 Corresponding NOS Code G&J/N1405		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), Samples of, Spot Welding Machine with chairs Metal Wire, Copper Diode, Metal Cutter, Plier, Measuring Guage, Protective Eye Wear, Table Lamp, Cleaning Cloth, Tray, Screw Driver, Electric Tape, Foot Pedal, Metal Wire, Tweezers, 50 Jewellery Pieces Per Student Optional — Computer or Laptop Attached to LCD Projector
3	Coordinate with coworkers Theory Duration (hh:mm) 02:00 Practical Duration (hh:mm) 03:00 Corresponding NOS Code G&J/N9904	 To coordinate with supervisor to understand the work output requirements. To communicate with supervisor about company policies and rules. To coordinate with supervisor timely delivery of work and report any anticipated delays. To coordinate with colleagues as a team to achieve team goals. To resolve conflicts by communicating with colleagues and other departments. To multi-task relevant activities. 	Mandatory – White Board/Black Board Marker/ Chalk, Duster Notepads, Pens, Pencils, Blank Sheets Optional – Computer or Laptop Attached to LCD Projector









Sr. No.	Module	Key Learning Outcomes	Equipment Required
4	Maintain safe work environment Theory Duration (hh:mm) 02:00 Practical Duration (hh:mm) 03:00 Corresponding NOS Code G&J/N9905	 To report about potential sources of danger. To use precautionary methods and fire extinguisher in case of fire. To use first aid procedure in case of emergencies. To use and wear recommended safety gears as per company policies. 	Mandatory – Safety Hand Gloves, Fire Extinguisher, First Aid Kit Optional – Computer or Laptop Attached to LCD Projector
	Total Duration Theory Duration 26:00 Practical Duration 174:00	Unique Equipment Required: Whiteboard, Whiteboard Markers, Notepads Sheets, Samples of Common Metals Used i Jewellery Manufacturing Including Copper, I Steel, Zinc, Brass etc., Blank Job Sheets Sample Job Sheet with All Requirements Fil Types of Jewellery Samples (As Per Particip Samples of, Spot Welding Machine with cha Copper Diode, Metal Cutter, Plier, Measurin Eye Wear, Table Lamp, Cleaning Cloth, Tra Electric Tape, Foot Pedal, Metal Wire, Twee Pieces Per Student, Computer or Laptop Att Projector, Safety Hand Gloves, Fire Extingu	n Imitation Lead, Tin, Nickel, led in, Different cant Handbook), irs Metal Wire, g Gauge, Protective y, Screw Driver, ezers, 5 Jewellery tached to LCD

Grand Total Course Duration: 200 Hours, 0 Minutes

(This syllabus/ curriculum has been approved by **Gem & Jewellery Skill Council of India**









Trainer Prerequisites for Job role: "Spot Welder – Imitation Jewellery" mapped to Qualification Pack: "G&J/Q1403, 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/Q1403", 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: Spot Welder – Imitation Jewellery mapped to QP: "G&J/1403, 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: "MEP/Q0102". 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 Spot Welder.









Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Spot Welder – Imitation Jewellery
Qualification Pack	G&J/Q1403, 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.









		Marks Allocation			
Assessment outcomes	Assessment Criteria for outcomes	Total Mark (80+20)	Out of	Theory	Skills Practical
	PC1. Collect the components as required by the designs		5	0	5
	PC2. Accumulate metal and components from the relevant person		5	0	5
	PC3. Spot weld the component/ part at the precise location		5	3	3
	PC4. Spot weld the jewellery pieces/ accessories as per the design		3	0	3
	PC5. Handle spot welding equipment safely		3	0	3
	PC6. Minimize damage to the product while working		3	0	3
1.G&J/N1404 Operate spot	PC7. Align and weld the component part or assembly at the precise location	50	5	0	3
welding machine in Imitation jewellery	PC8. Deliver the product timely to next process		2	0	2
,	PC9. Rectify number of jewellery pieces/ accessories as per target deliverable and quality approved by the supervisor		3	0	3
	PC10. Produce defect-free products		5	2	2
	PC11. Deliver defect free and evenly set jewellery pieces and accessory		3	0	3
	PC12. Deliver maximum number of Quality control certified pieces/accessories		3	0	3
	PC13. Rework on the product returned from QC		3	0	3
	PC14. Deliver complete jewellery/accessories on time by reporting problems faced or anticipated well in advance		2	0	2
	Sub Total		50	6	44
	PC1. Use copper diodes as per the job	10	5	2	3
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2. G&J/N1405 Understand and change copper diodes as per the job	PC2. Use different copper diodes for spot welding jewellery/ accessories		5	2	3
	Sub Total		10	4	6
	PC1. Deliver the work output as per requirements and communicate the same		3	1	2
	PC2. Communicate to the reporting supervisor about process flow improvements, product defects received from previous process, repairs and maintenance of tools and machinery as required		3	1	2
	PC3. Handover completed work to supervisor		2	0	2
3. G&J/ N9904 Coordinate with co-	PC4. Deliver quality work on time as required by reporting any anticipated reasons for delay	20	1	0	1
workers	PC5. Comply with company policy and rules		2	0	2
	PC6. Put team over individual goals and work with team		2	1	1
	PC7. Resolve conflicts		2	1	1
	PC8. Learn how to multi-task relevant activities and use them accordingly		2	0	2
	PC9. Work with colleagues of other departments		3	1	2
	Sub Total		20	5	15
	PC1. Spot and report potential hazards on time		10	3	7
4. G&J/N9905 Maintain safe work	PC2. Understand which safety gear must be used for a particular task and use when required	20	5	0	5
environment	PC3. Understand and follow the evacuation procedure properly during a fire		5	2	3
	Sub Total		20	5	15
	Grand Total 100 Percentage Weightage:		100	20	80
				20%	80%
	Minimum Pass% to qualify (aggregate):			5	0%