

# 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: 'Spot Welder - Imitation Jewellery'  
QP No. 'G&J/Q1403 NSQF Level 3'

Date of Issuance: **November 10<sup>th</sup>, 2017**

Valid up to: **November 10<sup>th</sup>, 2021**

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



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

## TABLE OF CONTENTS

<b>1. Curriculum</b>	<b><u>01</u></b>
<b>2. Trainer Prerequisites</b>	<b><u>05</u></b>
<b>3. Annexure: Assessment Criteria</b>	<b><u>06</u></b>

# Spot Welder- Imitation Jewellery

## CURRICULUM / SYLLABUS

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

<b>Program Name</b>	<b>Spot Welder- Imitation Jewellery</b>		
<b>Qualification Pack Name &amp; Reference ID.</b>	G&J/Q1403, v1.0		
<b>Version No.</b>	1.0	<b>Version Update Date</b>	10-11-2017
<b>Pre-requisites to Training</b>	Not Applicable		
<b>Training Outcomes</b>	<p><b>After completing this programme, participants will be able to:</b></p> <ul style="list-style-type: none"> <li>• <b>Operate spot welding machine in Imitation jewellery:</b> Operate the spot welding machine fitted with different sizes of copper diodes in Imitation jewellery and conduct spot soldering in jewellery pieces and accessories.</li> <li>• <b>Understand and change copper diodes as per the job:</b> Change copper diodes as per the requirement of jewellery pieces and accessories.</li> <li>• <b>Coordinate with co-workers:</b> Communicate with colleagues or clients to work as a team and multitask and communicate with colleagues.</li> <li>• <b>Maintain safe work environment:</b> Report potential hazards and contain accidents in order to make the work environment safe for self and colleagues.</li> </ul>		

This course encompasses 4 out of 4 National Occupational Standards (NOS) of “Spot Welder- Imitation Jewellery” Qualification Pack issued by “Gem & Jewellery Skill Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p><b>Operate spot welding machine in Imitation jewellery</b></p> <p><b>Theory Duration</b> (hh:mm) 20:00</p> <p><b>Practical Duration</b> (hh:mm) 160:00</p> <p><b>Corresponding NOS Code</b> G&amp;J/N1404</p>	<ul style="list-style-type: none"> <li>To spot weld jewellery using the spot welding machines</li> <li>To detect product defects</li> <li>To control damages to the product</li> <li>To achieve timely delivery of product as per target</li> <li>To check quality outcome</li> <li>To report problems</li> <li>To achieve quality production</li> <li>To maintain quality standards of company</li> </ul>	<p><b>Mandatory</b> – 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 Gauge, Protective Eye Wear, Table Lamp, Cleaning Cloth, Tray, Screw Driver, Electric Tape, Foot Pedal, Metal Wire, Tweezers, 50 Jewellery Pieces Per Student</p> <p><b>Optional</b> – Computer or Laptop Attached to LCD Projector</p>
2	<p><b>Understand and change copper diodes as per the job</b></p> <p><b>Theory Duration</b></p>	<ul style="list-style-type: none"> <li>To identify and use appropriate copper diodes as per the job</li> <li>To change copper diodes as per job requirement</li> </ul>	<p><b>Mandatory</b> – Whiteboard, Whiteboard Markers, Notepads, Pens,</p>





**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 <sup>th</sup> Standard Pass
4a	Domain Certification	Certified for Job Role: <u>Spot Welder – Imitation Jewellery</u> mapped to QP: “ <u>G&amp;J/1403, v1.0</u> ”. 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

<b>Assessment Criteria</b>	
<b>Job Role</b>	<b>Spot Welder – Imitation Jewellery</b>
<b>Qualification Pack</b>	<b>G&amp;J/Q1403, v1.0</b>
<b>Sector Skill Council</b>	<b>Gem &amp; Jewellery Skill Council of India</b>

<b>Sr. No.</b>	<b>Guidelines for Assessment</b>
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
<b>1.G&amp;J/N1404</b> <b>Operate spot welding machine in Imitation jewellery</b>	PC1. Collect the components as required by the designs	<b>50</b>	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
	PC7. Align and weld the component part or assembly at the precise location		5	0	3
	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
	<b>Sub Total</b>		<b>50</b>	<b>6</b>	<b>44</b>
	PC1. Use copper diodes as per the job	<b>10</b>	5	2	3

