

MODEL CURRICULUM

Casting Expert – Imitation Jewellery

SECTOR: GEMS & JEWELLERY
SUB-SECTOR: IMITATION JEWELLERY
OCCUPATION: CASTING
REF ID: G&J/Q1301, 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: '**Casting Expert - Imitation Jewellery**'
QP No. '**G&J/Q1301 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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Casting Expert – Imitation Jewellery

CURRICULUM / SYLLABUS

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

Program Name	Casting Expert – Imitation Jewellery		
Qualification Pack Name & Reference ID.	G&J/Q1301, 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"> • Operate casting machine: Convert wax models to Imitation jewellery or accessory pieces through metal (Lead, Zinc etc) casting process by precisely controlling machine parameters in order to manufacture jewellery/accessories with minimal rework. • 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. 		

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		Small Buffing Machine, Exhaust Fan, Table Fan, Measuring Gauge, Water Tubs, Weighing Scale, Casting Gloves, Protective Eyeglasses and Face Mask, Metal Cleaning Brush, Cleaning Cloth/Cotton Cloth, Tray, Screw Driver, Silicon Rubber Dye, Metal Cutter, master dye of different jewellery samples, Computer or Laptop Attached to LCD Projector, Iron Hammer, Safety Hand Gloves, Fire Extinguisher, First Aid Kit	

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: “Casting Expert – Imitation Jewellery” mapped to Qualification Pack: “G&J/Q1301, 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/Q1301”, 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: Casting Expert – Imitation Jewellery mapped to QP: “G&J/Q1301, 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 Casting.

Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Casting Expert – Imitation Jewellery
Qualification Pack	G&J/Q1301, 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 (20+80)	Out of	Theory	Skills Practical
1.G&J/N1301 Operate casting machine	PC1. Calculate metal required for the order	60	5	0	5
	PC2. Handle molten metal with less risks		5	0	5
	PC3. Understand and implement melting requirements as per different metals		5	2	3
	PC4. Pour metal at the right temperature		10	3	7
	PC5. plan casting cycles properly for the optimum utilization of machines and work as per plan		5	0	5
	PC6. Timely deliver casted jewellery pieces to next process		4	0	4
	PC7. Produce number of casted jewellery/accessory pieces as per target deliverable and quality approved by the supervisor		10	5	5
	PC8. Produce defect-free casted jewellery/accessory pieces		3	0	3
	PC9. Do casting process with minimum damage to the set stones		5	0	5
	PC10. Produce Quality Control okayed cast jewellery piece		5	0	5
	PC11. Deliver casted jewellery pieces on time by reporting problems faced or anticipated well in advance		3	0	3
	Sub Total		60	10	50
2. G&J/N9904 Coordinate with co-workers	PC1. Understand the work output requirements and work accordingly	20	3	1	2
	PC2. Communicate to reporting supervisor about process-flow improvements, product defects received from previous process, repairs and maintenance of tools and machinery as required		1	0	1
	PC3. Handover completed work to supervisor		1	0	1
	PC4. Deliver quality work on time as required by reporting any anticipated reasons		2	1	1

	PC5. Comply with company policy and rules and work accordingly		3	1	2
	PC6. Put team over individual goals and work with team		3	1	2
	PC7. Resolve conflicts		3	0	3
	PC8. Learn how to multi-task relevant activities and apply that in various situations		1	0	1
	PC9. Work with colleagues of other departments		3	1	2
	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		2	1	1
	PC3. Attend and actively participate in the health and safety campaigns organised by the company		2	0	2
	PC4. Work according to 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 that accordingly		2	1	1
	PC7. Attend fire drills organised by the company or industrial zone		2	0	2
	PC8. Learn first aid procedure and make the use of it when needed		2	1	1
	PC9. Be alert about designated assembly area in the event of an emergency and use it if required		2	1	1
	PC10. Understand and follow the evacuation procedure properly during a fire		2	0	2
	Sub Total		20	5	15
	Grand Total	100	100	20	80
	Percentage Weightage:			20%	80%
	Minimum Pass% to qualify (aggregate):			50%	