

Model Curriculum

Gemstone Polisher

SECTOR: GEMS & JEWELLERY
SUB-SECTOR: GEMSTONE PROCESSING
OCCUPATION: FACETING AND POLISHING
REF ID: G&J/Q6701, 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: **'Gemstone Polisher'** QP No. **'G&J/Q6701 NSQF Level 3'**

Date of Issuance: **October 15th, 2016**

Valid up to: **October 14th, 2018**

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


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

Gemstone Polisher

CURRICULUM / SYLLABUS

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

Program Name	Gemstone Polisher		
Qualification Pack Name & Reference ID	G&J/Q6701, v1.0		
Version No.	1.0	Version Update Date	N.A
Pre-requisites to Training	10th standard passed, preferably		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Dop the gemstone: Fix the rough-cut or pre-shaped gemstone securely on the dop for pre-shaping, faceting or polishing • Polish the gemstone: Provide final finish to the pre-shaped, cabochon or faceted gemstone by polishing • Maintain IPR at work: Respecting Intellectual Property Rights of the company’s products and designs. • Coordinate with colleagues: Identify team work and level of communication with colleagues or clients. It determines the ability to work as a team member, share work and multi-task in order to achieve the required deliverables on schedule. • Maintain safety at work: Make commitment towards reporting potential hazards, taking preventive measures to contain accidents in order to make the work environment safe for self and colleagues and maintaining a clean working environment. 		

This course encompasses 5 out of 5 National Occupational Standards (NOS) of “Gemstone Polisher” Qualification Pack issued by “Gem & Jewellery Skill Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Dop the Gemstone (hh:mm) 10:00</p> <p>Practical Duration (hh:mm) 60:00</p> <p>Corresponding NOS Code G&J/N6601</p>	<ul style="list-style-type: none"> To accurately align the stone To choose the appropriate dop and material for fixing stone To maintain appropriate level of heating to avoid colour change of stone To achieve scratch-free doping To achieve secure setting To identify different types of stones and their gemmological properties, particularly, with respect to heat and pressure sensitivity To use different qualities of wax and lac for fixing To identify the pros and cons of different qualities of wax and lac To use the heating lamp for secure fixing without damaging the stone 	<p>Mandatory – Plier; Metal Brush; Scale; Buffs – Cloth; Emery Paper; Media Polisher; Buffing Machine; Carving Sticks; Diamond Powder; Bottoming Dop With Indexing; Small Tray; Stone Scoop / Supadi; Gemstones and Diamond Packets; Top Dop With Indexing; Girdle Polishing Machine; Pen; Pencil; Eraser; Note Pad; Chamois/Selvet cloth; Sawing Blade; Diamond Lap; Polishing Plate; Buff Polisher; Dop Stick; Transfer Block; Hot Plate; Dop Stand; Eye Glass; Tweezers; Faceting & Polishing Machine; Tumbling Machine; Sawing Machine</p>
2	<p>Polish faceted or cabochon gemstone (hh:mm) 10:00</p> <p>Practical Duration (hh:mm) 60:00</p> <p>Corresponding NOS Code G&J/N6701</p>	<ul style="list-style-type: none"> To polish facets completely and without windowing To accurately use angle-indexing To use correct lap, powder and buff To accurately calibrate the gemstone To achieve scratch-less facets or cabochon with brilliance level To understand angle-indexing on polishing machine for achieving maximum clarity and brilliance in polished stone 	<p>Mandatory – Plier; Metal Brush; Scale; Buffs – Cloth; Emery Paper; Media Polisher; Buffing Machine; Carving Sticks; Diamond Powder; Bottoming Dop With Indexing; Small Tray; Stone Scoop / Supadi; Gemstones and Diamond Packets; Top Dop With Indexing; Girdle Polishing Machine; Pen; Pencil; Eraser; Note Pad; Chamois/Selvet</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
			cloth; Sawing Blade; Diamond Lap; Polishing Plate; Buff Polisher; Dop Stick; Transfer Block; Hot Plate; Dop Stand; Eye Glass; Tweezers; Faceting & Polishing Machine; Tumbling Machine; Sawing Machine
3	<p>Maintain IPR at work</p> <p>Theory Duration (hh:mm) 01:00</p> <p>Practical Duration (hh:mm) 02:00</p> <p>Corresponding NOS Code G&J/N9920</p>	<ul style="list-style-type: none"> To prevent leak of new designs/ plans to competitors by reporting on time To be aware of any of company's product, process or design patents To report IPR violations observed in the market, to supervisor or company heads To know the basics of IPR and patent laws 	Computer or laptop attached to LCD projector; whiteboard; whiteboard markers; Pen; Pencil; Eraser; Note Pad
4	<p>Coordinate with colleagues</p> <p>Theory Duration (hh:mm) 02:00</p> <p>Practical Duration (hh:mm) 02:00</p> <p>Corresponding NOS Code G&J/N9921</p>	<ul style="list-style-type: none"> Learn how to coordinate with supervisor, colleagues and others Learn the importance of interaction and coordination for personal growth 	Computer or laptop attached to LCD projector; whiteboard; whiteboard markers; Pen; Pencil; Eraser; Note Pad
5	<p>Maintain Safety at Work</p> <p>Theory Duration (hh:mm) 01:00</p> <p>Practical Duration (hh:mm) 02:00</p> <p>Corresponding NOS Code G&J/N9924</p>	<ul style="list-style-type: none"> Learn about safety procedures Learn about potential hazards in workplace Learn what to do in an emergency situation Learn to use the fire extinguisher by identifying the appropriate fire Learn how to comply with company safety rules and regulations 	First aid kit; fire extinguisher; emergency plan outline; Pen; Pencil; Eraser; Note Pad
	Total Duration	Unique Equipment Required:	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	150:00 Theory Duration 24:00 Practical Duration 126:00	Plier; Metal Brush; Scale; Buffs – Cloth; Emery Paper; Media Polisher; Buffing Machine; Carving Sticks; Diamond Powder; Bottoming Dop With Indexing; Small Tray; Stone Scoop / Supadi; Gemstones and Diamond Packets; Top Dop With Indexing; Girdle Polishing Machine; Chamois/Selvet cloth; Sawing Blade; Diamond Lap; Polishing Plate; Buff Polisher; Dop Stick; Transfer Block; Hot Plate; Dop Stand; Eye Glass; Tweezers; Faceting & Polishing Machine; Tumbling Machine; Sawing Machine, First aid kit; fire extinguisher; emergency plan outline; Pen; Pencil; Eraser; Note Pad	

Grand Total Course Duration: **150 Hours, 0 Minutes**

(This syllabus/ curriculum has been approved by [Gem and Jewellery Skill Council of India](#))

Trainer Prerequisites for Job role: “Gemstone Polisher” mapped to Qualification Pack: “G&J/Q6701, 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/Q6701”, 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	Graduate, preferably
4a	Domain Certification	Certified for Job Role: <u>Gemstone Polisher</u> mapped to QP: “G&J/Q6701, 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 trainer is 80% as per SSC guidelines.
5	Experience	Minimum 3 years of experience in gemstone polishing

Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Gemstone Polisher
Qualification Pack	G&J/Q6701, 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	Individual assessment agencies will create theory question papers for candidates at every examination/training centre. (as per assessment criteria below)
4	Individual assessment agencies will create practical tests for skill evaluation for candidates at every examination/training centre. (as per assessment criteria below)
5	To pass the Qualification Pack, every candidate should score a minimum 50% of aggregate marks to successfully clear the assessment.
6	In case of successfully passing only certain number of NOSs, the candidate is eligible to take subsequent assessment on the balance NOSs to pass the Qualification Pack.

Assessment outcomes	Assessment Criteria for outcomes	Marks Allocation			
		Total Marks (80+20)	Out Of	Theory	Skills Practical
1. G&J/N6601 Dop the gemstone	PC1. Accurately align the stone	22	3	0	3
	PC2. Make correct selection of appropriate dop and material for fixing		5	1	4
	PC3. Maintain appropriate level of heating so that stone does not change colour		5	1	4
	PC4. Achieve scratch-free doping		3	0	3
	PC5. Achieve secure setting		3	0	3
	PC6. Make timely delivery to facet maker or shaper		1	0	1
	PC7. Achieve number of dops prepared per day as per target given		1	0	1
	PC8. Deliver damage-free output with minimum hazards		1	0	1
	Total		22	2	20
2. G&J/N6701 Polish faceted or cabochon gemstone	PC1. Polish facets completely and without window	53	12	2	10
	PC2. Accurately use angle-indexing		12	2	10
	PC3. Use correct lap, powder and buff		7	2	5
	PC4. Accurately calibrate the gemstone		2	0	2
	PC5. Achieve maximum number of qc okayed polished gemstones		2	0	2
	PC6. Deliver the number of stones polished per day against target given		2	0	2
	PC7. Achieve scratch-less facets or cabochon with brilliance level as per job sheet		6	0	6
	PC8. Maintain stone loss within prescribed limits, particularly, in precious stones		8	2	6
	PC9. Deliver polished stone in time by reporting problems faced or anticipated well in advance		2	0	2
Total	53	8	45		
3. G&J/N9920 Maintain IPR at work	PC1. Be aware of patents and IPR	8	4	2	2
	PC2. Not be involved in IPR violations		4	2	2
	Total	8	4	4	

4. G&J/N9921 Coordinate with colleagues	PC1. Understand the work output requirements	8	2	1	1
	PC2. Comply with company policy and rule		1	0	1
	PC3. Deliver quality work on time as required by reporting any anticipated reasons for delays		1	0	1
	PC4. Put team over individual goals		2	1	1
	PC5. Resolve conflicts and multi-task		2	1	1
	Total		8	3	5
5. G&J/N9924 Maintain safety at work	PC1. Spot and report potential hazards on time	9	2	1	1
	PC2. Follow company policy and rules regarding use of hazardous materials		1	0	1
	PC3. Deliver quality work on time as required by reporting any anticipated reasons for delays		1	0	1
	PC4. Use or wear safety gear as per the rules of the company		3	2	1
	PC5. Clean the work station		1	0	1
	PC6. Organise tools and equipment in use		1	0	1
Sub Total			9	3	6
Grand Total		100	100	20	80
Percentage Weightage:				20%	80%
Minimum Pass % to qualify (aggregate):				50%	