







BRIDGE TRAINING MODEL CURRICULUM

Polisher and Cleaner

SECTOR: GEMS & JEWELLERY

SUB-SECTOR: HANDMADE GOLD AND GEMS-SET

JEWELLERY, CAST AND DIAMONDS- SET

JEWELLERY, SILVERSMITHING

OCCUPATION: POLISHING AND CLEANING

REF ID: G&J/Q0701, V2.0

NSQF LEVEL: 4









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Polisher and Cleaner

CURRICULUM / SYLLABUS

This program is aimed at training Bridge course candidates for the job of a "Polisher and Cleaner", in the "Gems & Jewellery" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Polisher and Cleaner
Qualification Pack Name & Reference ID.	G&J/Q0701, v2.0
Pre-requisites to Training	Basic Literacy Skill
Training Outcomes	 After completing this programme, participants will be able to: Understand jewellery market scenario in India. Understand carrier opportunities in G&J sector for Industry. How to work in team. Understand pre-requisites to become an entrepreneur. Prepare & organize finishing or polishing machines, tools and consumables Perform Manual polishing of jewellery articles at polishing station with various rotating instruments Perform different methods of surface finishing Follow Best bench practices to maintain minimum gold loss or able to maintain predefined metal weight tolerance Implement 5 S (LEAN_methodology) at work place Perform Cleaning of polished Jewellery Perform mass finishing of Jewellery for consistent surface quality/ finish & to_achieve_optimized gold loss. Perform surface coating processes. Follow different process quality defects and its repair. Follow safety practices at the work place (PPE & MSDS)









Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Prepare, organize & maintain finishing or polishing machines, tools and consumables Theory Duration (hh:mm) 5:00 Practical Duration (hh:mm) 2:00 Corresponding NOS Code G&J/No703	 Understand and demonstrate to plan, prepare and stock the various types of lapping, polishing or buffing wheels, brushes, discs, emery paper sticks, burnishers, hanks of cotton thread etc., before different stages like grinding, prepolishing and final high shine polishing Understand and demonstrate the use of high-speed rotating polishing motors, foredom hand motors or lapping machine, other tools and equipments etc., Understand and demonstrate the different types of abrasives, compounds, polishing and buffing materials etc, for different precious metal surface Understand and ensure preventive maintenance of the polishing machines or stations, tools and equipments 	Computer or Laptop Attached to LCD Projector for Presentation, different tools, equipments and consumables used in manual polishing White Board/Black Board Marker/ Chalk, Duster, Notepads, Pens, Pencils, Blank Sheets,
2	Manual polishing of jewellery with rotating machines <u>/</u> equipment Theory Duration (hh:mm) 31:00 Practical Duration (hh:mm) 12:00 Corresponding NOS Code	 Read and understand the Job sheet or standard operating procedures for the specific finishing or polishing requirement of jewellery Understand and demonstrate the basic steps of manual polishing from grinding to high shine polishing, using rotating equipments Ensure and demonstrate various best bench practices to maintain minimum gold loss or predefined metal weight tolerance 	Polishing Station with Machine, Cotton Gloves, Paint Brush, Metal Brush, Pin Tong, Metal Scissors, Steel Scale, Weighing Scale, Mandrel for Bristle Brush, Wooden Clip, Leather Belt, 2 Line Hair Brush, Rough Rouge (Lustre), Strong Motors, Bristle Brush, Felt Ring Buff,









Sr. No.	Module	Key Learning Outcomes	Equipment Required
	G&J/No704	 Understand and demonstrate RPMs, pressure and other influencing factors Ensure and demonstrate self-quality checks during various stages of polishing and to re-work or repair various surface defects Understand the benefits and demonstrate the implementation of 5s LEAN Manufacturing practices at work place Sort Organize Speak & Span (Cleanliness) Standardized Sustain Understand and demonstrate the use of Vacuum dust collector and manual dust collection methods for better gold recovery 	Lapping Wheel, Ring Wooden Stick, Unfinished Brass/ Copper Ornaments, Wooden Polish Sticks, Red Rouge, Tweezers, Table Brush, Buffs - Cloth, Emery Paper/ Sticks, Emery Rubber Wheel, Rubber Bullet, Eye Protective Goggles, Polishing Wax, Thick Cotton Thread, 10x eye loop, Protective Medical Mask, Buffing Machine with All Types of Buff Wheels, Pendant Motor, File Set, Mandrel Set, Cleaning Cloth, Hammer Set, Mixture of sulphuric acid and water Computer or Laptop Attached to LCD Projector for presentation
	Cleaning polished Jewellery Theory Duration (hh:mm) 1:00 Practical Duration (hh:mm) 2:00 Corresponding NOS Code G&J/No704	 Understand and demonstrate the use of ultrasonic cleaning machine, steam cleaner Understand & demonstrate setting of influencing parameter like Ultrasonic frequency, temperature, steam pressure etc. Understand and demonstrate common cleaning agents/ chemicals and their application/ dosages 	Ultrasonic Cleaner, Steam Cleaner, Ultrasonic Jig, Tray for Steam Cleaner, cleaning solutions Computer or Laptop Attached to LCD Projector for presentation
	Mass Finishing of jewellery for consistent surface quality and optimized gold loss	 Understand the use the advantages of modern of mass finishing machines like single- barrel tumblers, hexagonal drums, magnetic polisher, vibrators and disc-finishing etc., 	Computer or Laptop Attached to LCD Projector for presentation Magnetic pin polisher









Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Theory Duration (hh:mm) 11:00 Practical Duration (hh:mm) 4:00 Corresponding NOS Code G&J/No704	 Understand the physics and influence of different finishing media on the surface in finishing machines Understand different finishing machines for different use Understand the different finishing techniques and parameters that influence the result in mass finishing Understand the suitable jewellery for mass finishing Understand differences of the gold loss in the hand-finishing to the machine-finishing Understand the gold recovery methods for mass finishing waste 	
	Total Duration Theory Duration 48:00 (hh:mm) Practical Duration 20:00 (hh:mm) Dishing Station with Machine, Steam Cleaner, Magnetic Tumb Unfinished Brass/ Copper Ornaments, Wooden Folish Sticks, Rev Rouge, Tweezers, Cleaning Solution, Table Brush, Buffs - Cloth, Sticks, Emery Mandrel, Rubber Wheel, Rubber Bullet, Eye Protective Medical Mask, Buffing Machine with All Types of Buff Wheels, Pendant Motor, Metal Plating Machine and Component Plating, File Set, Mandrel Set, Cleaning Cloth, Hammer Set, Jewellery Finishing Tool Kit, Bowls. Safety Hand Gloves, Fire Extinguisher, First Aid Kit Computer or Laptop Attached to LCD Projector	water, Red stone, but tray, Paint Brush, Scale, Weighing Scale, mer Belt, 2 Line Hair Bristle Brush, Felt Ring Steam Cleaner, Sand for er, Ultrasonic Cleaner, er, Magnetic Tumbler, en Polish Sticks, Red rush, Buffs - Cloth, er Bullet, Eye Protective, 10x eye loop, th All Types of Buff ne and Components for Hammer Set, and Gloves, Fire	

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









Trainer Prerequisites for Job role: <u>"Polisher and Cleaner"</u> mapped to Qualification Pack: <u>"G&J/Q0701, v2.0" For Bridge Course Training.</u>

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/Qo701", Version 2.0.
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	10 th standard
4	Experience	The minimum experience required is 3 years in QC/ trainer/ supervisor Polishing and Cleaning.