|  |
| --- |
| **Model Curriculum**  **QP Name:**  **Gemstone Final Shaper and Calibrator**  **QP Code: G&J/Q6603**  **QP Version: 3.0**  **NSQF Level: 3**  **Model Curriculum Version: 3.0** |
| **­**  Gems & Jewellery Skill Council of India  Business Facilitation Centre, 3rd Floor, Seepz Special Economic Zone,  Andheri (E). Mumbai 400 096. |



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# Training Parameters

|  |  |
| --- | --- |
| **Sector** | Gem & Jewellery |
| **Sub-Sector** | Gemstone Processing |
| **Occupation** | Pre-shaping or Pre-forming |
| **Country** | India |
| **NSQF Level** | 3 |
| **Aligned to NCO/ISCO/ISIC Code** | NCO-2015/7223.0800 |
| **Minimum Educational Qualiﬁcation and Experience** | 9th Grade pass (No Experience required)  OR  8th Grade pass (1 year relevant experience)  OR  Previous relevant Qualification of NSQF Level 3 (1 year relevant experience) |
| **Pre-Requisite License or Training** | NA |
| **Minimum Job Entry Age** | 18 Years |
| **Last Reviewed On** | 2/24/2022 |
| **Next Review Date** | 2/24/2025 |
| **NSQC Approval Date** | 17/11/2022 |
| **QP Version** | 3.0 |
| **Model Curriculum Creation Date** | 2/24/2022 |
| **Model Curriculum Valid Up to Date** | 2/24/2025 |
| **Model Curriculum Version** *<* | 3.0 |
| **Minimum Duration of the Course** | 360 Hours |
| **Maximum Duration of the Course** | 360 Hours |

# Program Overview

This section summarizes the end objectives of the program along with its duration.

## Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills.

* List the various kinds of stones and their attributes.
* Examine the strategy for aligning and doping the stones.
* Explain how to apply angles to doped stones to give them the desired shape.
* Use strategies to safeguard your company's intellectual property rights (IPR) and prevent infringing on those of other businesses.

## Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| NOS and Module Details | Theory  Duration | Practical  Duration | On-the-Job Training Duration (Mandatory) | On-the-Job Training Duration (Recommended) | Total Duration |
| G&J/N6601 – Dop the gemstone  NOS Version No. 2.0  NSQF Level 4 | **30:00** | **90:00** | **-** | **-** | **120:00** |
| Module 1: Introduction and orientation of the Gems and Jewellery sector | 5:00 | 0:00 | - | - | 5:00 |
| Module 2: Doping the Gemstone | 25:00 | 90:00 | - | - | 115:00 |
| G&J/N6604 – Give final shape to pre-shaped gemstone and calibrate  NOS Version No. 1.0  NSQF Level 4 | **30:00** | **120:00** | **-** | **-** | **150:00** |
| Module 3: Shaping and Calibrating Gemstone | 30:00 | 120:00 | - | - | 150:00 |
| G&J/N9920 – Maintain IPR of company  NOS Version No. 2.0  NSQF Level 2 | **10:00** | **20:00** | **-** | **-** | **30:00** |
| Module 4: Maintain IPR of company | 10:00 | 20:00 | - | - | 30:00 |
| G&J/N9924 – Maintain safety at work  NOS Version No. 2.0  NSQF Level 2 | **8:00** | **22:00** | **-** | **-** | **30:00** |
| Module 5: Health and safety at workplace | 8:00 | 22:00 | - | - | 30:00 |
| G&J/Nxxxx - Implement Circular Economy and Sustainable Practices in Gem and Jewellery Industry NOS Version No. 1.0  NSQF Level 3 | 10:00 | 20:00 | - | - | 30:00 |
| Module 6: Implement Circular Economy and Sustainable Practices in Gem and Jewellery Industry | 10:00 | 20:00 | - | - | 30:00 |
| DGT/VSQ/N0101 - Employability Skills (30 hours)  NOS Version No. – 1.0  NSQF Level – 2 | **12:00** | **18:00** | **-** | **-** | **30:00** |
| Module 7: Introduction to Employability Skills | 0.5:00 | 0.5:00 | - | - | 1:00 |
| Module 8: Constitutional values - Citizenship | 0.5:00 | 0.5:00 | - | - | 1:00 |
| Module 9: Becoming a Professional in the 21st Century | 0.5:00 | 0.5:00 | - | - | 1:00 |
| Module 10: Basic English Skills | 1:00 | 1:00 | - | - | 2:00 |
| Module 11: Communication Skills | 1.5:00 | 2.5:00 | - | - | 4:00 |
| Module 12: Diversity & Inclusion | 0.5:00 | 0.5:00 | - | - | 1:00 |
| Module 13: Financial and Legal Literacy | 1.5:00 | 2.5:00 | - | - | 4:00 |
| Module 14: Essential Digital Skills | 1:00 | 2:00 | - | - | 3:00 |
| Module 15: Entrepreneurship | 2.5:00 | 4.5:00 | - | - | 7:00 |
| Module 16: Customer Service | 1.5:00 | 2.5:00 | - | - | 4:00 |
| Module 17: Getting ready for apprenticeship & Jobs | 1:00 | 1:00 | - | - | 2:00 |
| Total Duration | **100:00** | **290:00** | **-** | **-** | **390:00** |

# Module Details

## Module 1: Introduction and orientation to the Gems and Jewellery sector

***Bridge Module, v2.0***

**Terminal Outcomes:**

* Explain the overview of the sector.
* Discuss the roles and responsibilities of a Gemstone Final Shaper and Calibrator.

|  |  |
| --- | --- |
| Duration: *5:00* | Duration: *0:00* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Explain the scope of the Gems and Jewellery sector. * List job opportunities for the Gemstone Final Shaper and Calibrator. * Discuss the roles and responsibilities of a Gemstone Final Shaper and Calibrator. * Explain the basics of gemstone shaping and calibration. |  |
| **Classroom Aids:** | |
| Laptop, white board, marker, projector | |
| **Tools, Equipment and Other Requirements** | |
|  | |

## Module 2: Doping the gemstone

***Mapped to G&J/N6601, v2.0***

**Terminal Outcomes:**

* Demonstrate the ability to perform precision alignment and material selection using AI and eco-friendly materials.
* Execute controlled heating and secure setting techniques to maintain quality and avoid damage.
* Utilize smart systems (IoT, AI, automation) to optimize productivity and ensure traceable workflows.
* Evaluate the effectiveness of AI and sustainable technologies in improving doping outcomes and reducing risks.

|  |  |
| --- | --- |
| Duration:*<40:00>* | Duration:*<75:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Explain the role of laser and AI-assisted tools in achieving precision alignment in stone positioning. * Identify suitable dops and adhesives using AI-based material selection criteria for optimal bonding. * Justify the selection of non-toxic and eco-friendly adhesives from a sustainability standpoint. * Describe how temperature-controlled induction heating prevents material stress and discoloration. * Analyse data from smart sensors to understand the importance of controlled heating during setting. * Discuss the benefits of automated pressure-setting techniques in achieving consistent results. * Evaluate the role of IoT-enabled systems in tracking dop preparation progress. * Apply predictive analytics to enhance production planning and meet target outputs efficiently. * Interpret results from machine vision systems for defect detection before and after doping. * Assess AI-based risk indicators to pre-emptively address potential hazards in the doping process. * Compare manual and robotic/semi-automated doping systems in terms of speed and uniformity. * Recommend energy-efficient doping methods that support sustainable manufacturing goals. * Summarize the significance of real-time data logging for quality assurance and compliance. | * Demonstrate the use of laser or AI-guided tools for precision alignment of stones. * Select appropriate dops and adhesives using AI-generated suggestions on material compatibility. * Handle eco-friendly adhesives ensuring correct application and minimal waste. * Operate induction heating machines while maintaining correct temperature thresholds. * Adjust heating parameters in real-time using smart sensor feedback for controlled processing. * Apply automated pressure-setting systems to secure stones effectively. * Monitor dop preparation progress using an IoT dashboard or interface. * Use analytics software to streamline task sequencing and boost output. * Inspect stones before and after doping using machine vision inspection tools. * Mitigate risks by configuring AI alerts based on real-time hazard predictions. * Install and calibrate robotic arms or semi-automated tools for uniform doping application. * Implement energy-saving protocols while operating doping equipment. * Log every step of the doping process in a digital tracking system for audit readiness. |
| **Classroom Aids:** | |
| Whiteboard, marker pen, computer or laptop attached to LCD projector, scanner, computer speakers | |
| **Tools, Equipment and Other Requirements** | |
|  | |

## Module 3: Shaping and calibrating gemstone

***Mapped to G&J/N6604, v1.0***

**Terminal Outcomes:**

* Demonstrate the ability to use AI-driven vibration monitoring systems to ensure stability and consistency during polishing.
* Apply real-time CAD feedback and automated systems to achieve high-precision facet alignment and symmetry.
* Utilize advanced polishing technologies, such as nano-polishing and AR simulations, to achieve high-quality finishes while reducing material waste.
* Integrate predictive analytics and IoT-enabled tracking to ensure productivity and compliance with industry standards for gemstone polishing.

|  |  |
| --- | --- |
| Duration:*<45:00>* | Duration:*<105:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Explain how AI-driven vibration monitoring systems can optimize polishing bench stability and reduce inconsistencies. * Describe the function of automated tang leveling systems in controlling angles and facet symmetry during polishing. * Illustrate how real-time feedback from CAD models enhances facet alignment accuracy during polishing operations. * Discuss the process of using laser-based inclusion mapping to remove flaws while preserving the carat weight of gemstones. * Analyze the role of machine learning techniques in detecting and correcting common polishing defects such as extra facets, polish lines, and abrasions. * Evaluate the impact of nano-polishing technology on achieving superior surface smoothness while reducing visible polishing marks. * Assess the benefits of adopting eco-friendly and low-energy polishing methods to align with sustainability goals in the jewelry industry. * Examine how augmented reality (AR) or virtual simulation tools assist in visualizing facet placements before actual polishing begins. * Summarize how IoT-enabled tracking systems ensure real-time compliance with international cut grading standards. * Assess the role of AI-based predictive analytics in optimizing polishing workflows to meet global productivity benchmarks. | * Operate AI-driven vibration monitoring systems to ensure the stability of the polishing bench and reduce inconsistencies. * Calibrate automated tang leveling systems for precise control of angles and symmetry during polishing. * Utilize real-time feedback from CAD models to accurately align facets during the polishing process. * Use laser-based inclusion mapping systems to identify and remove internal flaws without reducing carat weight. * Apply machine learning algorithms to detect and correct defects such as extra facets, abrasions, and polish lines during polishing. * Implement nano-polishing techniques to enhance surface smoothness and minimize polishing marks. * Adopt eco-friendly and low-energy polishing methods in line with sustainable industry standards. * Leverage augmented reality (AR) or virtual simulation tools to visualize the final design and facet placements before executing the polishing process. * Monitor the polishing process using IoT-enabled tracking systems to ensure compliance with cut grading standards. * Optimize polishing workflows with AI-driven predictive analytics to enhance productivity and meet international benchmarks. |
| **Classroom Aids:** | |
| Whiteboard, marker pen, computer or laptop attached to LCD projector, scanner, computer speakers | |
| **Tools, Equipment and Other Requirements** | |
| Job sheet, different types of stones, Weighing scales, Chart depicting different shapes of stones  Magnifying glass or loupe, Vernier calliper, gem refractometer, Microscope, Spectroscope, Gem cloth, Tweezer, Assortment pad, Gemstone scoop, Wax, Lac, Powder Laps | |

## Module 4: Respect and maintain IPR

***Mapped to G&J/N9901, v2.0***

**Terminal Outcomes:**

* Document and classify the organization’s intellectual property assets with accuracy.
* Detect and report potential intellectual property infringements using structured processes.
* Implement proactive measures to safeguard IP assets, ensuring compliance with regulations.
* Support enforcement actions by assisting legal teams in identifying and addressing IP violations.

|  |  |
| --- | --- |
| Duration:*<10:00>* | Duration:*<20:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Identify different types of intellectual property (IP) such as patents, trademarks, and copyrights and document their relevance to the company’s products and services. * Monitor internal and external sources for potential IP infringements and report any unauthorized usage to senior leadership. * Implement security measures such as watermarking, digital rights management, and contractual safeguards to prevent IP misuse. * Collaborate with legal and compliance teams to stay updated on changes in IP regulations and enforcement strategies. * Detect unauthorized replication or misuse of the company’s IP and escalate concerns to legal or management teams. * Support legal proceedings by compiling evidence and assisting in IP enforcement actions when required. * Analyse copyright clauses, fair use policies, and licensing agreements to ensure compliance while using external content. * Consult supervisors or legal experts when uncertain about the permissible use of external intellectual property. * Document sources and proper attributions while using third-party materials for business purposes. * Identify counterfeit or unauthorized reproductions of company IP in the market and maintain detailed records of such violations. * Report instances of IP breaches to relevant legal or governmental authorities to support enforcement actions. * Stay informed about evolving global IP laws and industry best practices to mitigate infringement risks. | * List all IP assets of the company and categorize them based on their type (trademark, patent, copyright). * Conduct periodic audits to check for any internal or external IP infringements. * Develop guidelines for employees on how to use company-owned IP responsibly. * Engage in training sessions with legal teams to understand the latest IP regulations. * Investigate suspected cases of IP violations and compile a report with evidence. * Assist legal teams in drafting notices or taking legal action against infringers. * Review licensing agreements and online terms of use before using any third-party materials. * Seek approval from legal experts when repurposing copyrighted or licensed content. * Maintain a centralized record of citations, licenses, and attributions for third-party materials used. * Survey the market for counterfeit products or unauthorized brand usage. * Communicate identified cases of IP breaches to senior leadership and legal authorities. * Research recent court cases and changes in global IP laws to stay updated. |
| **Classroom Aids:** | |
| Whiteboard, marker pen, computer or laptop attached to LCD projector, scanner, computer speakers | |
| **Tools, Equipment and Other Requirements** | |
| Whitener, Acetone, Pencils, Padika/packets with planning labels | |

## Module 5: Maintain health and safety at workplace

***Mapped to G&J/N9924, v2.0***

**Terminal Outcomes:**

* Demonstrate the use of AI and IoT tools for proactive workplace hazard detection.
* Implement global safety and compliance protocols in real-time operational settings.
* Maintain a hygienic, organized, and regulation-compliant workplace using smart tools and digital systems.
* Generate productivity and safety reports using real-time dashboards and digital logs.

|  |  |
| --- | --- |
| Duration:*<08:00>* | Duration:*<22:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Explain the role of AI-powered systems in identifying and preventing workplace hazards. * Describe global safety regulations applicable to hazardous material handling. * Discuss the function of IoT-enabled systems for tracking hazardous substances. * Illustrate how smart PPE and biometric-enabled systems enhance workplace safety. * Summarize the use of RFID/NFC technology for tracking and maintaining safety gear. * Identify the benefits of using automated bots and UV sanitation for workspace hygiene. * Analyze the importance of digital tool-tracking systems for inventory management. * Evaluate how real-time dashboards and AI-driven logs improve productivity and response time. | * Operate AI-enabled safety monitoring tools to detect real-time hazards. * Install and configure IoT tracking systems for hazardous materials in designated zones. * Utilize smart PPE with built-in sensors to respond to environmental hazard alerts. * Access restricted work zones using biometric-enabled authentication systems. * Monitor RFID-based safety gear compliance and perform regular maintenance checks. * Deploy automated cleaning bots and perform UV sanitation routines for hygiene compliance. * Track and organize tools using digital systems to maintain an efficient and safe workspace. * Generate digital reports and dashboards to monitor workflow, safety events, and corrective actions. |
| **Classroom Aids:** | |
| Whiteboard, Marker pen, Computer or Laptop attached to LCD projector, Scanner, Computer speakers | |
| **Tools, Equipment and Other Requirements :** | |
| Safety hand gloves, glasses, safety shoes, mask, fire extinguisher, first aid kit | |

## Module 6: Implement Circular Economy and Sustainable Practices in Gem and Jewellery Industry

***Mapped to G&J/Nxxxx, v1.0***

**Terminal Outcomes:**

* Explain the principles of the circular economy and their relevance to sustainable practices in the gem and jewellery industry.
* Implement design techniques that enhance jewellery recyclability and reusability while minimizing material waste.
* Analyze the environmental and economic impact of material wastage, hazardous waste, and energy consumption in jewellery manufacturing.
* Optimize jewellery production processes by incorporating responsible sourcing, energy-efficient equipment, and waste management techniques.

|  |  |
| --- | --- |
| Duration: *10:00* | Duration: *20:00* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Explain the principles of the circular economy and its relevance to the gem and jewellery industry. * Describe the methods for designing jewellery that support recyclability and reusability. * Identify the best practices for responsible sourcing of gemstones and metals in jewellery production. * Analyze the impact of material wastage on cost, sustainability, and environmental degradation. * Compare different waste management techniques, including recycling, upcycling, and safe disposal. * Illustrate the process of recovering and reintegrating lost gold into production. * Evaluate the role of renewable energy in jewellery manufacturing and its benefits. * Discuss industry regulations and policies related to sustainable and circular economy practices. * Summarize the significance of energy-efficient equipment and conservation techniques in jewellery production. * Assess the environmental impact of hazardous waste generated in jewellery manufacturing and methods to mitigate it. | * Demonstrate the process of identifying and selecting recyclable materials for jewellery production. * Implement modular design techniques that enable easy disassembly and reassembly of jewellery pieces. * Apply proper sorting and waste segregation practices for better recycling and disposal. * Operate energy-efficient equipment and monitor their performance to reduce power consumption. * Develop a documentation system to track and record recycled and upcycled materials. * Conduct a basic energy audit to identify inefficiencies in jewellery production processes. * Modify jewellery manufacturing processes to incorporate wax pattern reuse in the lost wax casting method. * Optimize water usage by implementing conservation measures such as recycling wastewater for non-production activities. * Design a take-back program for old and unwanted jewellery to promote sustainable practices. * Monitor and adjust indoor lighting, ventilation, and AC settings to enhance energy conservation in daily operations. |
| **Classroom Aids:** | |
| Laptop, white board, marker, projector | |
| **Tools, Equipment and Other Requirements** | |
| Recycling bins, waste segregation containers, modular design tools, digital design software, energy-efficient furnaces, renewable energy sources (solar panels, wind turbines), water recycling systems, waste tracking software, gold recovery units, wax pattern reuse equipment, take-back program infrastructure, energy audit tools, LED lighting systems, ventilation control devices, air quality monitors, sorting trays, eco-friendly packaging materials, jewellery dismantling tools, upcycling workstations, regulatory compliance documents, sustainable sourcing databases | |

## Module 7: Introduction to Employability Skills

***Mapped to DGT/VSQ/N0101***

**Terminal Outcomes:**

* Discuss about Employability Skills in meeting the job requirements

|  |  |
| --- | --- |
| **Duration**: *<0.5:00>* | **Duration**: *<0.5:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Discuss the importance of Employability Skills in meeting the job requirements | * Demonstrate Employability Skills |
| **Classroom Aids:** | |
| Whiteboard, marker pen, projector | |
| **Tools, Equipment and Other Requirements** | |
|  | |

## Module 8: Constitutional values - Citizenship

***Mapped to DGT/VSQ/N0101***

**Terminal Outcomes:**

* Discuss about constitutional values to be followed to become a responsible citizen

|  |  |
| --- | --- |
| **Duration**: *<0.5:00>* | **Duration**: *<0.5:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen. | * Show how to practice different environmentally sustainable practices |
| **Classroom Aids:** | |
| Whiteboard, marker pen, projector | |
| **Tools, Equipment and Other Requirements** | |
|  | |

## Module 9: Becoming a Professional in the 21st Century

***Mapped to DGT/VSQ/N0101***

**Terminal Outcomes:**

* Demonstrate professional skills required in 21st century

|  |  |
| --- | --- |
| **Duration**: *<0.5:00>* | **Duration**: *<0.5:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Discuss 21st century skills. | * Display positive attitude, self -motivation, problem solving, time management skills and continuous learning mindset in different situations. |
| **Classroom Aids:** | |
| Whiteboard, marker pen, projector | |
| **Tools, Equipment and Other Requirements** | |
|  | |

## Module 10 Basic English Skills

***Mapped to DGT/VSQ/N0101***

**Terminal Outcomes:**

* Practice basic English speaking.

|  |  |
| --- | --- |
| **Duration**: *<1:00>* | **Duration**: *<1:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Discuss need of basic English skills. | * Use appropriate basic English sentences/phrases while speaking |
| **Classroom Aids:** | |
| Whiteboard, marker pen, projector | |
| **Tools, Equipment and Other Requirements** | |
|  | |

## Module 11: Communication Skills

***Mapped to DGT/VSQ/N0101***

**Terminal Outcomes:**

* Practice basic communication skills.

|  |  |
| --- | --- |
| **Duration**: *<1.5:00>* | **Duration**: *<2.5:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Discuss need of communication skills * Describe importance of team work | * Demonstrate how to communicate in a well -mannered way with others. * Demonstrate working with others in a team |
| **Classroom Aids:** | |
| Whiteboard, marker pen, projector | |
| **Tools, Equipment and Other Requirements** | |
|  | |

## Module 12: Diversity & Inclusion

***Mapped to DGT/VSQ/N0101***

**Terminal Outcomes:**

* Describe PwD and gender sensitisation.

|  |  |
| --- | --- |
| **Duration**: *<0.5:00>* | **Duration**: *<0.5:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Discuss the significance of reporting sexual harassment issues in time | * Show how to conduct oneself appropriately with all genders and PwD |
| **Classroom Aids:** | |
| Whiteboard, marker pen, projector | |
| **Tools, Equipment and Other Requirements** | |
|  | |

## Module 13: Financial and Legal Literacy

***Mapped to DGT/VSQ/N0101***

**Terminal Outcomes:**

* Describe ways of managing expenses, income, and savings.

|  |  |
| --- | --- |
| **Duration**: *<1.5:00>* | **Duration**: *<2.5:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Discuss the significance of using financial products and services safely and securely. * Explain the importance of managing expenses, income, and savings. * Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws | * Demonstrate ways of managing expenses, income, and savings. |
| **Classroom Aids:** | |
| Whiteboard, marker pen, projector | |
| **Tools, Equipment and Other Requirements** | |
|  | |

## Module 14: Essential Digital Skills

***Mapped to DGT/VSQ/N0101***

**Terminal Outcomes:**

* Demonstrate procedure of operating digital devices and associated applications safely.

|  |  |
| --- | --- |
| **Duration**: *<1:00>* | **Duration**: *<2:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely | * Show how to operate digital devices and use the associated applications and features, safely and securely |
| **Classroom Aids:** | |
| Whiteboard, marker pen, projector | |
| **Tools, Equipment and Other Requirements** | |
|  | |

## Module 15: Entrepreneurship

***Mapped to DGT/VSQ/N0101***

**Terminal Outcomes:**

* Describe opportunities as an entrepreneur.

|  |  |
| --- | --- |
| **Duration**: *<2.5:00>* | **Duration**: *<4.5:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges | * Demonstrate ways for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges |
| **Classroom Aids:** | |
| Whiteboard, marker pen, projector | |
| **Tools, Equipment and Other Requirements** | |
|  | |

## Module 16: Customer Service

***Mapped to DGT/VSQ/N0101***

**Terminal Outcomes:**

* Describe ways of maintaining customer.

|  |  |
| --- | --- |
| **Duration**: *<1.5:00>* | **Duration**: *<2.5:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Differentiate between types of customers. * Explain the significance of identifying customer needs and addressing them. * Discuss the significance of maintaining hygiene and dressing appropriately. | * Show how to maintain hygiene and dressing appropriately. |
| **Classroom Aids:** | |
| Whiteboard, marker pen, projector | |
| **Tools, Equipment and Other Requirements** | |
|  | |

## Module 17: Getting ready for apprenticeship & Jobs

***Mapped to DGT/VSQ/N0101***

**Terminal Outcomes:**

* Describe ways of preparing for apprenticeship & Jobs appropriately.

|  |  |
| --- | --- |
| **Duration**: *<1:00>* | **Duration**: *<1:00>* |
| **Theory – Key Learning Outcomes** | **Practical – Key Learning Outcomes** |
| * Discuss the significance of dressing up neatly and maintaining hygiene for an interview * Discuss how to search and register for apprenticeship opportunities | * Create a biodata * Use various sources to search and apply for jobs |
| **Classroom Aids:** | |
| Whiteboard, marker pen, projector | |
| **Tools, Equipment and Other Requirements** | |
|  | |

# Annexure

## Trainer Requirements

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Trainer Prerequisites | | | | | | |
| Minimum Educational Qualification *<Select the minimum educational requirements, such as 12th Pass, Graduate or NSQF certified.>* | **Specialization**  *<Specify the areas of specialization that are desirable.>* | **Relevant Industry Experience** | | **Training Experience** | | **Remarks** |
| ***Years*** | ***Specialization*** | ***Years*** | ***Specialization*** |  |
| 10th pass |  | 5 | Gemstone shaping and calibration | 1 | Not mandatory but teaching experience in Gemstone shaping and calibration |  |
| Certified in relevant CITS course as appropriate |  |  |  |  |  |  |

|  |  |
| --- | --- |
| Trainer Certification | |
| Domain Certification | **Platform Certification** |
| “Gemstone Final Shaper and Calibrator, G&J/Q6603, Version 3.0”.  Minimum accepted score is 80%. | “Trainer, MEP/Q2601”  Minimum accepted score is 80%. |

## Assessor Requirements

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Assessor Prerequisites | | | | | | |
| Minimum Educational Qualification  *<Select the minimum educational requirements, such as 12th Pass, Graduate or NSQF certified.>* | **Specialization**  *<Specify the areas of specialization that are desirable.>* | **Relevant Industry Experience** | | **Training/Assessment Experience** | | **Remarks** |
| ***Years*** | ***Specialization*** | ***Years*** | ***Specialization*** |  |
| 10th pass |  | 5 | Gemstone shaping and calibration | 1 | Not mandatory but teaching experience in Gemstone shaping and calibration |  |
| Certified in relevant CITS course as appropriate |  |  |  |  |  |  |

|  |  |
| --- | --- |
| Assessor Certification | |
| Domain Certification | **Platform Certification** |
| “Gemstone Final Shaper and Calibrator, G&J/Q6603, Version 3.0”.  Minimum accepted score is 80%. | “Assessor, MEP/Q2701”  Minimum accepted score is 80%. |

## Assessment Strategy

1. Assessment System Overview:

* Batches assigned to the assessment agencies for conducting the assessment on SDSM/SIP or email
* Assessment agencies send the assessment confirmation to Vocational Training Partner (VTP)/ Training Center (TC) looping Sector Skill Council (SSC)
* Assessment agency (AA) deploys the Training of Assessors (ToA) certified Assessor for executing the assessment
* SSC monitors the assessment process & records

1. Checks & Balances:

* SSC and AA confirms that the centre is available at the same address as mentioned on SDMS or SIP
* SSC and AA checks the duration of the training and Minimum Attendance Protocol
* SSC and AA checks the Assessment Start and End time to be as 10 a.m. and 5 p.m.
* If the batch size is more than 30 for STT and/ or 50 in RPL, then there should be 2 Assessors preferably.
* SSC and AA checks that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
* SSC checks the mode of assessment—Online (TAB/Computer) or Offline (OMR/PP).
* SSC and AA check and confirms the number of TABs on the ground are correct to execute the Assessment smoothly.
* SSC and AA checks the availability of the Lab Equipment for the particular Job Role.

1. Assessment Quality Assurance levels / Framework:

* Question papers created by the Subject Matter Expert (SME) verified by the other SME’s.
* Questions are mapped with National Occupational Standards (NOS) and Performance Criteria (PC).
* Question Bank covers all PC under each NOS of a Qualification Pack (QP). Each question can cover one or more PCs. Which means that every question needs to be mapped with PC.
* There are sufficient number of questions in the question bank, where multiple questions are available for each PC. Typically, the number of questions should be 3 to 4 times the number of PCs.
* Each question bank has around 150 to 200 questions.
* Each question has a difficulty level mentioned against it and the question bank has a good mix of easy, medium and difficult questions. So, for example out of 200 Questions the proportion could be 25 difficult/ hard, 75 Medium and 100 Easy level questions.
* Other than the Multiple-choice question (MCQ) few questions are created for Practical and viva too. For e.g., for 150-200 QB contains approximately 10-15 Viva & 10-15 practical questions.
* Questions are periodically randomised for assessment
* Assessor and Trainers must be ToA or Training of Trainers (ToT) certified, respectively
* Assessment agency must follow the assessment guidelines to conduct the assessment

1. Types of evidence or evidence-gathering protocol:

* Assessor has to do the time-stamped & geotagged reporting from assessment location to AA and SSC.
* Center photographs with signboards and scheme specific branding are taken by assessor.
* Assessor has to collect the biometric or manual attendance sheet (stamped by TP) of the trainees during the training period.
* Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos are collected by AA from the assessor and has to share the same to SSC.

1. Method of verification or validation:

* SSC can do the surprise visit to the assessment location.
* SSC can do the random audit of the batch digitally and/or by physical visit.
* SSC can do the random audit of any candidate digitally and/or by physical visit.

1. Method for assessment documentation, archiving and access

* Hard copies of the documents are stored by AA.
* Soft copies of the documents & photographs of the assessment are uploaded / accessed from Cloud Storage by AA.
* SSC will take the backup of soft copies of the documents & photographs of the assessment in their Hard Drives.

# References

## Glossary

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| --- | --- | --- |
| **Sector** | | Sector is a conglomeration of diﬀerent business operations having similar business and interests. It may also be deﬁned as a distinct subset of the economy whose components share similar characteristics and interests. |
| **Sub-sector** | | Sub-sector is derived from a further breakdown based on the characteristics and interests of its components. |
| **Occupation** | | Occupation is a set of job roles, which perform similar/ related set of functions in an industry. |
| **Job role** | | Job role deﬁnes a unique set of functions that together form a unique employment opportunity in an organisation. |
| **Occupational Standards (OS)** | | OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts. |
| **Performance Criteria (PC)** | | Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task. |
| **National Occupational Standards (NOS)** | | NOS are occupational standards which apply uniquely in the Indian context. |
| **Qualiﬁcations Pack (QP)** | | QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualiﬁcations pack code. |
| **Unit Code** | | Unit code is a unique identiﬁer for an Occupational Standard, which is denoted by an ‘N’ |
| **Unit Title** | | Unit title gives a clear overall statement about what the incumbent should be able to do. |
| **Description** | | Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for. |
| **Scope** | | Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required. |
| **Knowledge and Understanding (KU)** | | Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational speciﬁc knowledge that an individual needs in order to perform to the required standard. |
| **Organisational Context** | | Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility. | |
| **Technical Knowledge** | | Technical knowledge is the speciﬁc knowledge needed to accomplish speciﬁc designated responsibilities. | |
| **Core Skills/ Generic Skills (GS)** | | Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today’s world. These skills are typically needed in any work environment in today’s world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles. | |
| **Electives** | | Electives are NOS/set of NOS that are identiﬁed by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives. | |
| **Options** | | Options are NOS/set of NOS that are identiﬁed by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options. | |

## Acronyms and Abbreviations

|  |  |
| --- | --- |
| **NOS** | National Occupational Standard(s) |
| **NSQF** | National Skills Qualiﬁcations Framework |
| **QP** | Qualiﬁcations Pack |
| **TVET** | Technical and Vocational Education and Training |
| **PC** | Performance Criteria |
| **SSC** | Sector Skill Council |
| **AA** | Assessment Agency |
| **ToT** | Training of Trainers |
| **ToA** | Training of Assessors |
| **VTP** | Vocational Training Partner |
| **TC** | Training Center |
| **SME** | Subject Matter Expert |