

Syllabus for Jewellery Frame Maker

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| Course Name | Jewellery Frame Maker |
| Sector | GEMS & JEWELLERY |
| Course Code | GJR/2024/JEFM/388 |
| Level | 3 |
| Occupation | Jewellery Frame Maker |
| Job Description | The individual works, mainly, with machine and hand tools to create the base jewellery frame from gold as per design and for further embellishing with components, gemstones and enamelling and plating. The goldsmith is responsible for delivering quality gold jewellery with minimum gold or stone loss. |
| Course Duration | Total Duration 390 Hrs. (T-90 , P- 180 , OJT-60 and ES-60) |
| Trainees' Entry Qualification | Grade 10 OR Grade 8 with two year of (NTC/ NAC) after 8 th OR Grade 8 pass and pursuing continuous schooling in regular school with vocational subject OR 8th grade pass with 2 yrs. relevant experience OR Previous relevant Qualification of NSQF Level 2 with one yr. experience OR Previous relevant Qualification of NSQF Level 2.5 with 6 months experience |
| Trainers Qualification | |

Structure of Course:

| Module No. | Module name | Outcome | Compulsory/ Optional | Theory (Hrs.) | Practical (Hrs.) | Total (Hrs.) |
|-------------------|--|---|-----------------------------|----------------------|-------------------------|---------------------|
| 1 | Introduction | Identify gemstone and gemstone setting techniques used in jewellery making | Compulsory | 10 | 20 | 30 |
| 2 | Basic Metalworking | Demonstrate metal cutting, shaping, gemstone setting, and basic frame construction | Compulsory | 10 | 20 | 30 |
| 3 | Introduction of Software & Design Interface [Code GJR/1305/OC1] | Execute the fundamental operations within the software to apply them in various jewellery designs | Compulsory | 20 | 40 | 60 |
| 4 | Basic Design Principles | Apply design principles for jewelry and frame design. | Compulsory | 10 | 20 | 30 |
| 5 | Advanced Techniques | Demonstrate advanced metalworking, gemstone setting, and intricate frame construction | Compulsory | 10 | 20 | 30 |
| 6 | Ornamentation and Detailing | Perform decorative design for jewellery and Frame | Compulsory | 10 | 20 | 30 |

SYLLABUS

| Module No. | Module name | Outcome | Compulsory/ Optional | Theory (Hrs.) | Practical (Hrs.) | Total (Hrs.) |
|---------------|--|---|----------------------|---------------|------------------|--------------|
| 7 | Assembly and Finalization | Assemble jewellery components and frame elements ensuring structural integrity and gemstone security to prepare finished product. | Compulsory | 10 | 20 | 30 |
| 8 | Business Basics & Practice Sessions | Set up a Jewellery and Frame workshop with pricing strategies, and marketing initiation | Compulsory | 10 | 20 | 30 |
| 9 | OJT | Work in real job situation with special emphasis on basic safety and hazards in this domain (OJT). | Compulsory | -- | 60 | 60 |
| 10 | Employability Skill | As per guided curriculum | Compulsory | 60 | -- | 60 |
| TOTAL: | | | | 150 | 240 | 390 |

SYLLABUS:

Module No 1: Introduction

Outcome: Identify gemstone and gemstone setting techniques used in jewellery making.

Theory Content:

1.1 Historical Overview

- Introduction to the historical evolution of handmade gold gemstone jewelry and frame making.
- Exploration of significant cultural and artistic influences.

1.2 Gemstone Types and Characteristics

- Overview of various gemstones used in jewelry making.
- Understanding the characteristics and properties of different gemstones.

1.3 Materials and Tools for Jewelry and Frame Making

- Identification and understanding of materials commonly used in handmade gold gemstone jewelry and frame making.
- Introduction to essential tools for jewelry and frame crafting.

Practical Content:

1.4 Tool Familiarization

- Hands-on session for familiarizing students with basic jewelry and frame-making tools.
- Practice handling and using tools safely.

1.5 Gemstone Identification and Handling

- Practical exercises for identifying and handling different types of gemstones.
- Introduction to basic gemstone setting techniques and frame construction.

Tools & Equipment needed:

Jeweller's Saw, Files (Assorted Types), Pliers Set, Jeweller's Bench Pin, Ring Clamp, Soldering Torch (with Gas Canisters), Soldering Pad, Metal Ruler, Jeweller's Hammer Set, Mandrels (Ring and Bracelet), Flex Shaft Rotary Tool, Engraving Tools, Callipers, Gemstone Setting Tools, Jeweller's Loupe, Metals & Assorted Gemstones, Soldering Materials, Frame Making Materials, Sandpapers, Polishing Compounds, Safety Equipment, Safety Pickle for Metal Cleaning, Finishing Materials

Module No: 2 Basic Metalworking

Outcome: Demonstrate metal cutting, shaping, gemstone setting, and basic frame construction.

Theory Content:**2.1 Metal Properties and Selection**

- Properties of metals used in jewelry and frame making.
- Selection of metals based on design and functionality.

2.2 Cutting and Shaping Techniques for Jewelry and Frames

- Metal cutting techniques (sawing, piercing).
- Introduction to shaping techniques for jewelry components and frame elements.

2.3 Basic Gemstone Setting for Jewelry and Basic Frame Construction

- Overview of basic gemstone setting techniques relevant to jewelry making.
- Methods for securing gemstones in frames.

Practical Content:**2.4 Metal Cutting and Shaping Practice**

- Practice sessions for mastering metal cutting and shaping techniques.
- Create basic jewelry components and frame elements through metalworking.

2.5 Gemstone Setting and Basic Frame Construction Exercises

- Practical exercises on basic gemstone setting techniques for jewelry and basic frame construction.
- Practice on different setting techniques for various gemstone shapes in the context of frame making.

Tools & Equipment needed:

Jeweller's Saw, Files (Assorted Types), Pliers Set, Jeweller's Bench Pin, Ring Clamp, Soldering Torch (with Gas Canisters), Soldering Pad, Metal Ruler, Jeweller's Hammer Set, Mandrels (Ring and Bracelet), Flex Shaft Rotary Tool, Engraving Tools, Callipers, Gemstone Setting Tools, Jeweller's Loupe, Metals & Assorted Gemstones, Soldering Materials, Frame Making Materials, Sandpapers, Polishing Compounds, Safety Equipment, Safety Pickle for Metal Cleaning, Finishing Materials

Module 3: Introduction of Software & Design Interface**Outcome:**

Execute the fundamental operations within the software to apply them in various jewellery designs

Theory Content:

- All important tools like curve, surface, poly-surface, trim, joint, group, background bitmap, and other available tools.
- Sketch 2d design following background bitmap.
- Variety style of stone setting
- Modify surfaces in different style.
- Make design, maintain viewports, follow parameters, metal weight, stone weight.
- Recheck final 3dm file & send to CAD operator for bulk production.

Practical Content:

- Operating 3d module Software.
- Understanding the four viewport.
- Use of Save, Restore, Backup files.
- Demonstration on Tools and parameters to make 3dm file.
- Import the blue print of 3dm file.
- 2d sketch of 3dm file.
- Convert 2d sketch in 3dm format.
- Maintain parameters (millimetre).
- Save final blue print of design maintain IPR.
- Completion & delivery of the projects on time & share feedback.

Tools & Equipment:

White Board/Black Board, LCD Projector, Scanner, Desktop Computer With Latest Configuration, Licensed Software Rhinoceros, Licensed Software Matrix, Job Card/Brief, Library Of Basic Designs Of Jewellery, Instructor's Table, Instructor's Chair, White Board 4'-00" X 8'-00", Table, Chair

Module No: 4 Basic Design Principles

Outcome: Apply design principles for jewelry and frame design.

Theory Content:**4.1 Fundamental Design Principles for Jewelry and Frames**

- In-depth exploration of design principles such as balance, proportion, and symmetry.
- Application of these principles to handmade gold gemstone jewelry and frame designs.

4.2 Incorporating Gemstones into Designs

- Discuss on incorporating gemstones into jewelry and frame designs.
- Explore design choices that enhance gemstone aesthetics in the context of frames.

Practical Content:**4.3 Design Application Exercises for Jewelry and Frames**

- Practical exercises on design principles application to jewelry making and frame crafting.
- Create simple jewelry designs incorporating gemstones and frame designs.

4.4 Critique and Refinement for Jewelry and Frames

- Hands-on practices on critique and refinement of jewelry and frame designs.
- Iterative improvement based on design principles for both jewelry and frame elements.

Tools & Equipment needed:

Jeweller's Saw, Files (Assorted Types), Pliers Set, Jeweller's Bench Pin, Ring Clamp, Soldering Torch (with Gas Canisters), Soldering Pad, Metal Ruler, Jeweller's Hammer Set, Mandrels (Ring and Bracelet), Flex Shaft Rotary Tool, Engraving Tools, Callipers, Gemstone Setting Tools, Jeweller's Loupe, Metals & Assorted Gemstones, Soldering Materials, Frame Making Materials, Sandpapers, Polishing Compounds, Safety Equipment, Safety Pickle for Metal Cleaning, Finishing Materials

Module No: 5 Advanced Techniques

Outcome: Demonstrate advanced metalworking, gemstone setting, and intricate frame construction.

Theory Content:**5.1 Advanced Metalworking Techniques for Jewelry and Frames**

- Explore metalworking techniques such as filigree and granulation.
- Discussion on when and how to use each technique effectively for both jewelry and frame crafting

5.2 Advanced Gemstone Setting Techniques for Jewelry and Frames

- Introduction to advanced gemstone setting techniques (bezel setting, prong setting).
- Overview of different settings for enhancing gemstone presence in both jewelry and frames.

5.3 Advanced Frame Construction Techniques

- Elaborate on advanced frame construction techniques, including intricate designs and structural considerations.

Practical Content:**5.4 Hands-on Advanced Metalworking for Jewelry and Frames**

- Practical sessions for mastering advanced metalworking techniques for both jewelry and frames.
- Create complex jewelry structures using filigree and granulation, and intricate frame elements.

5.5 Advanced Gemstone Setting Projects for Jewelry and Frames

- Guided exercises for practicing advanced gemstone setting techniques for both jewelry and frames.
- Application of different setting techniques for various gemstone shapes in both contexts.

5.6 Advanced Frame Construction Projects

- Practical projects focusing on advanced frame construction techniques.
- Create frames with intricate designs and structural considerations.

Tools & Equipment needed:

Jeweller's Saw, Files (Assorted Types), Pliers Set, Jeweller's Bench Pin, Ring Clamp, Soldering Torch (with Gas Canisters), Soldering Pad, Metal Ruler, Jeweller's Hammer Set, Mandrels (Ring and Bracelet), Flex Shaft Rotary Tool, Engraving Tools, Callipers, Gemstone Setting Tools, Jeweller's Loupe, Metals & Assorted Gemstones, Soldering Materials, Frame Making Materials, Sandpapers, Polishing Compounds, Safety Equipment, Safety Pickle for Metal Cleaning, Finishing Materials

Module No: 6 Ornamentation and Detailing

Outcome: Perform decorative design for jewelry and Frame

Theory Content:**6.1 Engraving and Embellishment Techniques for Jewelry and Frames**

- Overview of engraving techniques for adding intricate details to jewelry and frames.
- Exploration of various embellishment methods, including chasing and repoussé

6.2 Inlay and Overlay with Gemstones for Jewelry and Frames

- Introduction to inlay and overlay techniques for decorative jewelry and frame elements.
- Discussion on incorporating gemstones for enhanced ornamentation.

6.3 Applying Decorative Finishes for Jewelry and Frames

- Explore finishes such as gilding, patination, and oxidation for added ornamentation.
- Considerations for choosing appropriate finishes based on design for both jewelry and frames.

Practical Content:**6.4 Engraving and Embellishment Practice for Jewelry and Frames**

- Hands-on sessions for practicing engraving and embellishment techniques for both jewelry and frames.
- Create detailed decorative elements for jewelry and frames.

6.5 Inlay and Overlay Projects with Gemstones for Jewelry and Frames

- Practical projects focusing on inlay and overlay techniques for both jewelry and frames.
- Create jewelry and frames with intricate mixed-material details.

6.6 Decorative Finish Application for Jewelry and Frames

- Application of decorative finishes to jewelry and frame surfaces.
- Hands-on projects to explore different finish effects for both jewelry and frames.

Tools & Equipment needed:

Jeweller's Saw, Files (Assorted Types), Pliers Set, Jeweller's Bench Pin, Ring Clamp, Soldering Torch (with Gas Canisters), Soldering Pad, Metal Ruler, Jeweller's Hammer Set, Mandrels (Ring and Bracelet), Flex Shaft Rotary Tool, Engraving Tools, Callipers, Gemstone Setting Tools, Jeweller's Loupe, Metals & Assorted Gemstones, Soldering Materials, Frame Making Materials, Sandpapers, Polishing Compounds, Safety Equipment, Safety Pickle for Metal Cleaning, Finishing Materials

Module No: 7 Assembly and Finalization

Outcome: Assemble jewelry components and frame elements ensuring structural integrity and gemstone security to prepare finished product.

Theory Content:**7.1 Assembly Techniques for Jewelry and Frames**

- Detailed discussion on assembling jewelry components and frame elements into cohesive structures.
- Considerations for structural integrity, gemstone security, and overall aesthetics.

7.2 Quality Control in Handmade Gold Gemstone Jewelry and Frames

- Overview of quality control measures for ensuring precision in jewelry and frame assembly.
- Inspection and troubleshooting techniques.

Practical Content:**7.3 Jewelry Assembly Projects**

- Guided projects focusing on assembling jewelry from various components.
- Evaluation of precision, structural integrity, and gemstone security.

7.4 Frame Assembly Projects

- Practical projects focusing on assembling frames from various elements.
- Evaluation of precision, structural integrity, and overall aesthetics.

7.5 Quality Control Exercises for Jewelry and Frames

- Practical exercises for inspecting and troubleshooting both jewelry and frame elements.

- Refinement of skills in achieving high-quality assembly for both contexts.

Tools & Equipment needed:

Jeweller's Saw, Files (Assorted Types), Pliers Set, Jeweller's Bench Pin, Ring Clamp, Soldering Torch (with Gas Canisters), Soldering Pad, Metal Ruler, Jeweller's Hammer Set, Mandrels (Ring and Bracelet), Flex Shaft Rotary Tool, Engraving Tools, Calipers, Gemstone Setting Tools, Jeweller's Loupe, Metals & Assorted Gemstones, Soldering Materials, Frame Making Materials, Sandpapers, Polishing Compounds, Safety Equipment, Safety Pickle for Metal Cleaning, Finishing Materials

Module No: 8 Business Basics & Practice Sessions

Outcome: Set up a Jewelry and Frame workshop with pricing strategies, and marketing initiation

Theory Content:

8.1 Setting up a Jewelry and Frame Workshop

- Exploration of essential considerations for setting up a jewelry and frame workshop.
- Discussion on workspace, tools, and safety measures.

8.2 Basic Pricing Strategies for Handmade Jewelry and Frames

- Theoretical overview of fundamental principles for pricing handmade gold gemstone jewelry and frames.
- Understanding factors influencing pricing decisions, including materials and labour.

8.3 Introduction to Marketing Handmade Jewelry and Frames

- Overview of marketing strategies for handmade gold gemstone jewelry and frames.
- Exploration of online and offline channels for promoting and selling artisanal jewelry and frames.

Practical Content:

8.4 Workshop Setup for Jewelry and Frames

- Practical exercises on organizing and setting up a jewelry and frame workshop.
- Hands-on experience in arranging tools and ensuring a safe working environment.

8.5 Pricing Simulation for Handmade Jewelry and Frames

- Practical simulation exercises for determining pricing strategies for sample handmade jewelry pieces and frames.
- Application of theoretical pricing principles.

8.6 Basic Marketing Initiatives for Handmade Jewelry and Frames

- Introduction to practical steps for marketing handmade gold gemstone jewelry and frames.
- Small projects or tasks focused on applying marketing concepts in a jewelry and frame crafting context.

Tools & Equipment needed:

Jeweller's Saw, Files (Assorted Types), Pliers Set, Jeweller's Bench Pin, Ring Clamp, Soldering Torch (with Gas Canisters), Soldering Pad, Metal Ruler, Jeweller's Hammer Set, Mandrels (Ring and Bracelet), Flex Shaft Rotary Tool, Engraving Tools, Calipers, Gemstone Setting Tools, Jeweller's Loupe, Metals & Assorted Gemstones, Soldering Materials, Frame Making Materials, Sandpapers, Polishing Compounds, Safety Equipment, Safety Pickle for Metal Cleaning, Finishing Materials

Module No.9 : OJT

Outcome: Work in real job situation with special emphasis on basic safety and hazards in this domain

Practical Content:

Assessor will check report prepared for this component of Practical training of the course and assess whether competency has been developed to work in the real job situation with special emphasis on basic safety and hazards in this domain. (The trainee is expected to undertake work in actual workplace under any supervisor / contractor for **60 Hours.**)

Module No. 10: Employability Skills (60 Hrs.)**Key Learning Outcomes****Introduction to Employability Skills**

Duration: 1.5 Hours

After completing this programme, participants will be able to:

1. Discuss the Employability Skills required for jobs in various industries
2. List different learning and employability related GOI and private portals and their usage

Constitutional values - Citizenship

Duration: 1.5 Hours

3. Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen
4. Show how to practice different environmentally sustainable practices.

Becoming a Professional in the 21st Century

Duration: 2.5 Hours

5. Discuss importance of relevant 21st century skills.
6. Exhibit 21st century skills like Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life.
7. Describe the benefits of continuous learning.

Basic English Skills

Duration: 10 Hours

8. Show how to use basic English sentences for everyday conversation in different contexts, in person and over the telephone
9. Read and interpret text written in basic English
10. Write a short note/paragraph / letter/e -mail using basic English

Career Development & Goal Setting

Duration: 2 Hours

11. Create a career development plan with well-defined short- and long-term goals

Communication Skills

Duration: 5 Hours

12. Demonstrate how to communicate effectively using verbal and nonverbal communication etiquette.
13. Explain the importance of active listening for effective communication
14. Discuss the significance of working collaboratively with others in a team

Diversity & Inclusion

Duration: 2.5 Hours

15. Demonstrate how to behave, communicate, and conduct oneself appropriately with all genders and PwD
16. Discuss the significance of escalating sexual harassment issues as per POSH act.

Financial and Legal Literacy

Duration: 5 Hours

17. Outline the importance of selecting the right financial institution, product, and service
18. Demonstrate how to carry out offline and online financial transactions, safely and securely
19. List the common components of salary and compute income, expenditure, taxes, investments etc.
20. Discuss the legal rights, laws, and aids

Essential Digital Skills

Duration: 10 Hours

21. Describe the role of digital technology in today's life
22. Demonstrate how to operate digital devices and use the associated applications and features, safely and securely
23. Discuss the significance of displaying responsible online behaviour while browsing, using various social media platforms, e-mails, etc., safely and securely
24. Create sample word documents, excel sheets and presentations using basic features
25. utilize virtual collaboration tools to work effectively

Entrepreneurship

Duration: 7 Hours

26. Explain the types of entrepreneurship and enterprises
27. Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan
28. Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement
29. Create a sample business plan, for the selected business opportunity

Customer Service

Duration: 5 Hours

30. Describe the significance of analyzing different types and needs of customers
31. Explain the significance of identifying customer needs and responding to them in a professional manner.
32. Discuss the significance of maintaining hygiene and dressing appropriately

Getting ready for apprenticeship & Jobs

Duration: 8 Hours

33. Create a professional Curriculum Vitae (CV)
34. Use various offline and online job search sources such as employment exchanges, recruitment agencies, and job portals respectively
35. Discuss the significance of maintaining hygiene and confidence during an interview
36. Perform a mock interview
37. List the steps for searching and registering for apprenticeship opportunities

Learning Outcome – Assessment Criteria

| Module No. | Outcome | Assessment Criteria |
|------------|---|---|
| 1 | Identify gemstone and gemstone setting techniques used in jewelry making | <p>After completion of this module students will be able to:</p> <ul style="list-style-type: none"> 1.1 Evaluate the depth of understanding regarding the historical evolution of handmade gold gemstone jewelry and frame making. 1.2 Identify and handle different types of gemstones. 1.3 Safely handle basic tools used in jewelry and frame making. 1.4 Recognize commonly used materials in the craft. 1.5 Adhere to safety measures during practical sessions and tool handling. |
| 2 | Demonstrate metal cutting, shaping, gemstone setting, and basic frame construction | <p>After completion of this module students will be able to:</p> <ul style="list-style-type: none"> 2.1 Describe metal cutting, shaping, and joining techniques. 2.2 Perform basic gemstone setting techniques. 2.3 Demonstrate basic frame construction techniques 2.4 Utilize tools for metalworking, gemstone setting, and frame construction. 2.5 Assess the overall craftsmanship displayed in practical projects. |
| 3 | Execute the fundamental operations within the software to apply them in various jewellery designs | <p>After completion of this module students will be able to:</p> <ul style="list-style-type: none"> 3.1 Operate Rhinoceros software, demonstrate a mastery of the tools and features essential for jewellery modelling. 3.2 Create accurate, precise design and models. 3.3 Explain their creative ideas to design jewellery. 3.4 Prepare design files that are ready for the manufacturing process. 3.5 Effectively visualize and accomplish a task. |
| 4 | Apply design principles for jewelry and frame design. | <p>After completion of this module students will be able to:</p> <ul style="list-style-type: none"> 4.1 Evaluate the application of fundamental design principles in practical projects. 4.2 Assess the effectiveness of incorporating gemstones into designs. 4.3 Evaluate creative and aesthetic choices in design applications. 4.4 Refine designs based on critique and feedback. 4.5 Illustrate design principles and their application. |
| 5 | Demonstrate advanced metalworking, gemstone setting, and intricate frame construction | <p>After completion of this module students will be able to:</p> <ul style="list-style-type: none"> 5.1 Evaluate advanced metalworking techniques such as filigree and granulation. 5.2 Illustrate advanced gemstone setting techniques. 5.3 Construct intricate frames using advanced techniques. 5.4 Evaluate the excellence in surface finishing techniques. 5.5 Handle complex projects combining advanced techniques. |
| 6 | Perform decorative design for jewelry and Frame | <p>After completion of this module students will be able to:</p> <ul style="list-style-type: none"> 6.1 Assess engraving and embellishment techniques. 6.2 Evaluate precision in applying inlay and overlay techniques. 6.3 Apply decorative finish to both jewelry and frames. 6.4 Add intricate details to designs 6.5 Assess the effective integration of different materials for ornamentation. |
| 7 | Assemble jewelry components and frame elements ensuring | <p>After completion of this module students will be able to:</p> <ul style="list-style-type: none"> 7.1 Evaluate precision in assembling jewelry components and frame elements. |

| Module No. | Outcome | Assessment Criteria |
|------------|---|--|
| | structural integrity and gemstone security to prepare finished product. | 7.2 Assess the maintenance of structural integrity in assembled pieces 7.3 Take measure to ensure the security of gemstones during assembly. 7.4 Evaluate quality control measures in the finalization process. 7.5 Troubleshoot and address any issues in the assembly. |
| 8 | Set up a Jewelry and Frame workshop with pricing strategies, and marketing initiation | After completion of this module students will be able to: 8.1 Troubleshoot and address any issues in the assembly. 8.2 Assess how creativity and innovation demonstrated in crafting projects align with effective business strategies. 8.3 Assess the application of theoretical knowledge in hands-on crafting sessions. 8.4 Adhere to safety measures and organizational skills in setting up a workshop. 8.5 Apply basic pricing strategies, considering factors such as materials, labour, and market dynamics. 8.6 Create a synergy between artistic expression and market viability. |
| 9 | OJT | Assessor will check report prepared for this component of Practical training of the course and assess whether competency has been developed to work in the real job situation with special emphasis on basic safety and hazards in this domain. (The trainee is expected to undertake work in actual workplace under any supervisor / contractor for 60 Hours.) |
| 10 | Employability Skill | As per guided curriculum |

List of Tools, Equipment & materials needed for 30 Trainees (Practical)

| Sl. No. | Items Name | Specification | Qty. |
|---------|--------------------------------------|-----------------------------------|------|
| 1. | Jeweller's Saw | | 30 |
| 2. | Files (Assorted Types) | | 30 |
| 3. | Pliers Set | Round Nose, Flat Nose, Chain Nose | 30 |
| 4. | Jeweller's Bench Pin | | 30 |
| 5. | Ring Clamp | | 30 |
| 6. | Soldering Torch (with Gas Canisters) | | 30 |
| 7. | Soldering Pad | | 30 |
| 8. | Metal Ruler | | 30 |
| 9. | Jeweller's Hammer Set | | 30 |
| 10. | Mandrels (Ring and Bracelet) | | 30 |
| 11. | Flex Shaft Rotary Tool | | 30 |
| 12. | Engraving Tools | | 30 |
| 13. | Calipers | | 30 |
| 14. | Gemstone Setting Tools | Prong Pusher, Bezel Roller | 30 |
| 15. | Jeweller's Loupe | | 30 |
| 16. | Metals & Assorted Gemstones | | 30 |
| 17. | Soldering Materials | Solder, Flux | 30 |

| Sl. No. | Items Name | Specification | Qty. |
|---------|--|------------------------------------|---------|
| 18. | Frame Making Materials | Wire, Sheets | 30 |
| 19. | Sandpapers | Assorted Grits | 30 |
| 20. | Polishing Compounds | | 30 |
| 21. | Safety Equipment | | 30 |
| 22. | Safety Pickle for Metal Cleaning | | 30 |
| 23. | Finishing Materials | Polishing Cloths, Finishing Papers | 30 |
| 24. | White Board/Black Board | | 1 |
| 25. | LCD Projector | | 1 |
| 26. | Scanner | | 1 |
| 27. | Desktop Computer With Latest Configuration | | 15 |
| 28. | Licensed Software Rhinoceros | | 1 |
| 29. | Licensed Software Matrix | | 1 |
| 30. | Job Card/Brief | | 30 |
| 31. | Library Of Basic Designs Of Jewellery | | 1 |
| 32. | Instructor`s Table | | 1 No. |
| 33. | Instructor`s Chair | | 2 Nos. |
| 34. | White Board 4'-00" X 8'-00" | | 1 No. |
| 35. | Table | | 30 Nos. |
| 36. | Chair | | 30 Nos. |

Marks Distribution

| Outcome | Outcome Code | Total Th marks | Total Pr marks | Total OJT marks |
|---|---------------|----------------|----------------|-----------------|
| Identify gemstone and gemstone setting techniques used in jewellery making | GJR/1307/OC1 | 10 | 80 | 0 |
| Demonstrate metal cutting, shaping, gemstone setting, and basic frame construction | GJR/1307/OC2 | 10 | 80 | 0 |
| Execute the fundamental operations within the software to apply them in various jewellery designs | GJR/1305/OC1 | 30 | 90 | 0 |
| Apply design principles for jewellery and frame design. | GJR/1307/OC3 | 20 | 80 | 0 |
| Demonstrate advanced metalworking, gemstone setting, and intricate frame construction | GJR/1307/OC4 | 20 | 80 | 0 |
| Perform decorative design for jewellery and Frame | GJR/1307/OC5 | 20 | 80 | 0 |
| Assemble jewellery components and frame elements ensuring structural integrity and gemstone security to prepare finished product. | GJR/1307/OC6 | 20 | 80 | 0 |
| Set up a Jewellery and Frame workshop with pricing strategies, and marketing initiation | GJR/1307/OC7 | 20 | 80 | 0 |
| Work in real job situation with special emphasis on basic safety and hazards in this domain (OJT). | GJR/1307/OC8 | 0 | 0 | 150 |
| Employability Skills – 60 Hrs | DGT/VSQ/N0102 | 50 | 0 | 0 |