

Syllabus For Terracotta Item(Toys and art pottery) Maker

Course Name	Terracotta Item(Toys and art pottery) Maker
Sector	HANDICRAFTS & CARPETS
Course Code	HAC/2024/TTPM/407
Level	3
Occupation	Terracotta Item(Toys and art pottery) Maker
Job Description	The Terracotta Item(Toys and art pottery) Maker is responsible for creating high-quality pottery items using various types of clay, techniques, and resources. This role involves a combination of artistic creativity, technical skill, and an understanding of market trends to produce pottery that meets both aesthetic and functional requirements. The Artisan will work individually and as part of a team, contributing to the production process from clay selection to firing and finishing
Course Duration	Total Duration 390 Hrs (T-90, P-180, OJT-60 and ES-60)
Trainees' Entry Qualification	Grade 10 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	12th grade pass with 4 yrs relevant experience OR 8 th Pass with State/ National awarded Artisan in TERRACOTTA OR Diploma in Art and Craft with 2 yrs relevant experience. OR UG course in Craft item.

Structure of Course:

Module No.	Module name	Outcome	Compulsory/ Optional	Theory (Hrs)	Practical (Hrs)	Total (Hrs) [Multiple of 30]
1	Clay Identification	Identify various types & quality of clay and its uses	Compulsory	10	20	30
2	Preparation of different pottery items	Create one clay handmade molded pottery item	Compulsory	20	40	60
3	Paper Mache Crafting	Identify requirements for paper mache proto type development	Compulsory	10	20	30

Module No.	Module name	Outcome	Compulsory/ Optional	Theory (Hrs)	Practical (Hrs)	Total (Hrs) [Multiple of 30]
4	Terracotta item making from pottery item	Fire and burns a pottery item to terracotta item.	Compulsory	10	20	30
5	Maintain occupational safety hazards at work place	Apply safe working practices at work place.	Compulsory	10	20	30
6	E-Commerce MEP/2501/OC6	Perform online business with digital marketing, logistics, and legal considerations	Compulsory	10	20	30
7	Market Analysis and Business Development	Use different resources to identify market trends	Compulsory	10	20	30
8	Work in a team	Demonstrate effective teamwork and problem-solving skills essential for terracotta artisan.	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 Clay Identification****Outcome:**

Identify various types & quality of clay and its uses

Theory Content:

- Explain the various types of clay such as sandy clay, doash soil, and ethyl soil.
- Highlight that clay products are eco-friendly and sustainable
- Discuss the historical significance of pottery in ancient civilizations.
- Describe different types of handicrafts made from clay, highlighting product categories.
- Different types of Handicrafts are made according to the type of soil.
- Describe the various tools used by Terracotta artisans
- Explain the purpose of each tool, such as shaping, carving, and detailing

Practical Content:

- Practice on mixing soil and water in appropriate ratio.
- Identify different soil such as Sandy clay, doash soil and ethyl soil.
- Identify the quality of clay through texture, color, and consistency.
- Demonstrate step-by-step processes for creating various Terracotta items such as pots, figurines.
- Make different type craft with clay.
- Demonstrate the use of muddy soil, hard soil and dry soil.

Tools & Equipment needed :

Different type of clay, Water, spade, Wooden stick, Water, Pot, P.O.P Molded

Module No 2: Preparation of different pottery items**Outcome :**

Create one clay handmade molded pottery item.

Theory Content:

- Identify various terracotta items in handicrafts products
- Discuss methods of making clay pottery, especially the wheel-turning technique
- Discuss different methods of making clay pottery.
- Explain the methods of making different types of Molds such as one sided and two sided moulds.
- Explain importance of tools and equipment based on the physical and operational properties of terracotta.

Practical Content:

- Practice on
 - i) Clay beating and mixing
 - ii) Throwing on wheel
 - Centering – proper setting of clay on nave of wheel
 - Coning
- Demonstrate Uses of molds and their expire time
- List of tools needed: different clay types, wooden sticks, water, pots, P.O.P molds.
- Demonstrate the use of wooden sticks and tools for shaping pottery.
- Make different types of pottery items using moulds
- Clean and cut edges of pottery items after molding.
- Polish using water, brushes, cotton cloth, etc.
- Dry clay pottery after moulding
- Making Molds with P.O.P (Plaster of Paris)
 - Prepare clay model before surrounding with P.O.P
 - Maintain Proper ratio of water to P.O.P for effective molding.
- Practice on making small handicrafts like idols, flowerpots, etc.

Tools & Equipment needed:

Different type of clay, Wooden stick, Water, Pot, P.O.P Molded

Module No: 3: Paper Mache Crafting

Outcome : Identify requirements for paper mache proto type development

Theory Content:

- Identify the different steps involved in the production of a paper mache product.
- Identify the various materials (such as newspaper, tissue paper, glue, flour paste etc) required for paper mache production.
- Review details based on comments from respective personnel and authoritative owners of the process.
- Consolidate details with sketches, drawings, materials used, samples, and any relevant design-related information.

Practical Content:

- Create TerraCotta molds and prepare them for paper mache.
- Layer paper for structure, using different adhesives, and testing reinforcements.
- Present prototypes for evaluation
- Compile sketches, organizing material lists, and develop showcase portfolios.

Tools & Equipment needed:

All-Purpose White Flour, Glue-All, Wood Glue, Joint Compound, Glycerin, Balloons, Masking Tape, Wire Sculpting Mesh, Cardboard, Acrylic Paint, FlexBond, Hand Mixer, Glue Gun, Spray Paint, Sculpting Tool

Module No 4: Terracotta item making from pottery item**Outcome :**

Fire and burns a pottery item to terracotta item.

Content:

- Identify the types of kilns used: Vertical (Gol Poan) and Horizontal (Kulo Poan).
- Clean the pottery items thoroughly.
- Polish them using water and a brush for a smooth finish.
- Apply slight heat it after polishing to remove any excess moisture.
- Check for any wet spots and ensure they are completely dry
- Place the pottery items in the kiln carefully, ensuring they do not touch.
- Monitor the cooling period of the kiln after firing(at least 12 to 15 hours after burning)
- Thoroughly brush the terracotta items after they have cooled.
- Prepare them for the painting or decorating process.

Tools & Equipment needed:

Fire pan, Electronic Fire machine etc.

Module No 5: Maintain occupational safety hazards at work place**Outcome:**

Apply safe working practices at work place.

Theory Content:

- _Maintain a clean and hazard-free work area to ensure safety.
- Adhere to agreed schedules for performing maintenance tasks.
- Take responsibility for maintenance and cleaning within assigned areas.
- Recognize and report dangers related to unsafe equipment and work processes.
- Use appropriate, clean equipment and methods for assigned tasks.
- Identify designated areas for proper and safe disposal of waste materials.

Practical Content:

- Regularly clean workspaces and equipment to prevent hazards.
- Follow maintenance schedules to ensure safe functioning of tools.
- Conduct daily checks for any hazards within one's designated area.
- Report and address any malfunctioning or unsafe equipment promptly.
- Properly store tools and equipment in designated areas after use.
- Demonstrate the correct methods of waste disposal in designated locations.

Tools & Equipment needed:

All-Purpose White Flour, Glue-All, Wood Glue, Joint Compound, Glycerin, Balloons, Masking Tape, Wire Sculpting Mesh, Cardboard, Acrylic Paint, FlexBond, Hand Mixer, Glue Gun, Spray Paint, Sculpting Tool

Module no. 6: E-Commerce

Outcome:-Perform online business with digital marketing, logistics and legal considerations

Content:**1. Introduction to E-Commerce**

- a. Understanding the concept of e-commerce
- b. Historical background and evolution of online businesses
- c. Types of e-commerce models (B2B/B2C)

2. E-Commerce Infrastructure

- a. Setting up an online store
- b. Payment gateways and security
- c. E-commerce platforms and tools

3. Digital Marketing for E-Commerce

- a. Search Engine Optimization (SEO) for e-commerce
- b. Social media marketing and advertising
- c. Content marketing strategies

4. E-Commerce Strategies

- a. Customer relationship management (CRM)
- b. Creating compelling product listings
- c. Understanding consumer behaviour online

5. Logistics and Fulfilment

- a. Order processing and fulfilment
- b. Inventory management
- c. Shipping and delivery options

6. Legal and Ethical Aspects of E-Commerce

- a. E-commerce regulations and compliance
- b. Privacy and security considerations
- c. Ethical issues in e-commerce

7. Case Studies and Best Practices

- a. Analysing successful e-commerce businesses
- b. Learning from real-world case studies
- c. Best practices for sustainable e-commerce

Module no 7.: Market Analysis and Business Development**Outcome :**

Use different resources to identify market trends

Theory Content:

- Discuss small business management principles.
- Demonstrate industrial and technical skills for Terracotta production.
- Familiarize with accounts maintenance and labor management.
- Overview of SSI registration, Trade License, Project Reports.

Practical Content:

- Create handicrafts using china clay and Mseal.
- Explore input markets and business locations through visits
- Prepare of financial schemes and loan proposals
- Develop new Terracotta designs based on market demand.

Tools & Equipment needed:

All-Purpose White Flour, Glue-All, Wood Glue, Joint Compound, Glycerin, Balloons, Masking Tape, Wire Sculpting Mesh, Cardboard, Acrylic Paint, FlexBond, Hand Mixer, Glue Gun, Spray Paint, Sculpting Tool

Module no. 8 : Work in a team

Outcome: Demonstrate effective teamwork and problem-solving skills essential for terracotta artisan.

Theory Content:

- Importance of effective teamwork for Terracotta artisan.
- Discuss work matters with team members for better comprehension of a situation.
- Impact of positive and negative team dynamics.
- Identify and avoid situations that might create conflicts among team members.
- Develop new ideas for work procedures improvisations.
- Discuss with team members and colleagues and work towards improving existing techniques to increase process efficiency.

Practical Content:

- Demonstrate politeness while communicating with team members and colleagues.
- Identify work requirements for delivering maximum productivity
- Role-playing exercises to practice conflict resolution.
- Identify ways to be effective and efficient at workplace.

Tools & Equipment needed:

All-Purpose White Flour, Glue-All, Wood Glue, Joint Compound, Glycerin, Balloons, Masking Tape, Wire Sculpting Mesh, Cardboard, Acrylic Paint, FlexBond, Hand Mixer, Glue Gun, Spray Paint, Sculpting Tool

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, Behavior 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 behavior 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 various types & quality of clay and its uses	<p>After completion of this module students will be able to:</p> <p>1.1 Identify clay types: sandy, doash, and ethyl soil.</p> <p>1.2 Discuss clay's eco-friendly and historical significance.</p> <p>1.3 Recognize clay-based handicraft categories and their significance.</p> <p>1.4 Demonstrate tools for shaping and detailing.</p> <p>1.5 Assess soil and water mixing ratios.</p> <p>1.6. Identify clay quality through texture, color, consistency.</p>
2	Create one clay handmade molded pottery item.	<p>After completion of this module students will be able to:</p> <p>2.1 Identify terracotta handicraft items.</p> <p>2.2 Demonstrate wheel-turning technique for pottery.</p> <p>2.3 Explain various methods of clay pottery creation.</p> <p>2.4 Utilize tools based on terracotta properties effectively.</p> <p>2.5 Execute clay beating, wheel throwing, centering, and coning.</p> <p>2.6 Demonstrate proper use and duration of molds.</p> <p>2.7 Shape pottery with wooden tools and sticks.</p> <p>2.8 Create varied pottery items using molds.</p> <p>2.9 Polish pottery with water, brushes, and cloth.</p> <p>2.10 Dry clay pottery post-molding for stability.</p> <p>2.11 Create P.O.P molds: prepare clay model, maintain water-P.O.P ratio.</p> <p>2.12 Produce small handicrafts like idols, flowerpots, etc.</p>
3	Identify requirements for paper mache proto type development	<p>After completion of this module students will be able to:</p> <p>3.1 Outline paper mache production steps and material requirements.</p> <p>3.2 Use varied materials like newspaper, tissue paper, and glue.</p> <p>3.3 Incorporate feedback to refine paper mache prototypes.</p> <p>3.4 Create TerraCotta moulds and test paper reinforcement.</p> <p>3.5 Present prototypes, organize sketches, and develop portfolios.</p>
4	Fire and burns a pottery item to terracotta item.	<p>After completion of this module students will be able to:</p> <p>4.1 Clean pottery items thoroughly for</p>

Module No.	Outcome	Assessment Criteria
		<p>transformation.</p> <p>4.2 Polish with water and brush for smoothness.</p> <p>4.3 Apply controlled heat to remove excess moisture.</p> <p>4.4 Safely load items in kiln, avoiding contact.</p> <p>Monitor kiln cooling for 12-15 hours.</p> <p>4.5 Expertly brush terracotta post-cooling for decoration.</p>
5	Apply safe working practices at work place.	<p>After completion of this module students will be able to:</p> <p>5.1 Demonstrates a consistently clean and hazard-free work area.</p> <p>5.2 Adheres to agreed-upon schedules for maintenance tasks.</p> <p>5.3 Take personal responsibility for cleaning and maintenance duties.</p> <p>5.4 Recognizes and reports potential hazards promptly.</p> <p>5.5 Utilize appropriate equipment and methods for safe work practices.</p> <p>5.6 Demonstrate proper waste disposal practices in designated areas.</p>
6	Perform online business with digital marketing, logistics, and legal considerations	<p>After completion of this module students will be able to:</p> <p>6.1 Explain e-commerce through clear examples</p> <p>6.2 Trace the development of online businesses and assess their impact on current e-commerce practices</p> <p>6.3 Identify various e-commerce models</p> <p>6.4 Set up a online store, selecting appropriate platforms and tools</p> <p>6.5 Implement digital marketing strategies</p> <p>Apply customer relationship management techniques to enhance customer satisfaction and retention</p> <p>6.6 Analyze logistics and fulfillment processes including order processing, inventory management and shipping options.</p>
7	Use different resources to identify market trends	<p>After completion of this module students will be able to:</p> <p>7.1 Analyze market trends for Terracotta products.</p> <p>7.2 Apply small business management principles to a given scenario</p> <p>7.3 Demonstrate industrial and technical skills in Terracotta production</p> <p>7.4 Manage accounts and labor effectively</p> <p>7.5 Prepare SSI registration, Trade License, and Project Reports.</p>

Module No.	Outcome	Assessment Criteria
		7.6 Create innovative Terracotta designs responsive to market demand.
8	Demonstrate effective teamwork and problem-solving skills essential for terracotta artisan.	<p>After completion of this module students will be able to:</p> <p>8.1 Apply conflict management strategies in team 8.2 Acknowledges the benefits of collaborative problem-solving approaches 8.3 Recognize positive/negative team dynamics 8.4 Generate innovative work ideas 8.5 Maintain Professional conduct and politeness in team interactions.</p>
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.	Equipment	Minimum number of Equipment required	
1	SPRAY MACHINE	1 Unit	
2	HAND SPRAY MACHINE	1 Unit	
3	FABRIC COLOUR	30 Piece	
4	BRUSH	30 Piece	
5	DUST COLOUR	1 Unit	
6	P.O.P (PLASTER OF PARIS)	1 Unit	
7	VARNISH	1 Unit	
8	TRAY	1 Unit	
9	DISTEMPER COLOUR	1 Unit	
10	CLAY	1 Unit	
11	Computer System	1 Unit	
12	Internet	1 Unit	
13	White Board	1 Piece	
14	Marker	5 Piece	

Marks Distribution

Outcome	Outcome Code	Total Th marks	Total Pr marks	Total OJT marks
Identify various types & quality of clay and its uses	HCA/1516/OC1	20	80	0
Create one clay handmade molded pottery item	HCA/1516/OC2	20	90	0
Identify requirements for paper mache proto type development	HCA/1516/OC3	20	80	0
Fire and burns a pottery item to terracotta item.	HCA/1516/OC4	20	80	0
Apply safe working practices at work place.	HCA/1516/OC5	10	80	0
Perform online business with digital marketing, logistics, and legal considerations	MEP/2501/OC6	20	80	0
Use different resources to identify market trends	HCA/1516/OC6	20	80	0
Demonstrate effective teamwork and problem-solving skills essential for terracotta artisan.	HCA/1516/OC7	20	80	0
Work in real job situation with special emphasis on basic safety and hazards in this domain (OJT).	HCA/1516/OC8	0	0	150
Employability Skills – 60 Hrs	DGT/VSQ/N0102	50	0	0