

## Rajasthan Skill & Livelihoods Development Corporation

<b>1. Module Name</b>	<b>Handicraft – Terracotta, Clay Item</b>
<b>2. Sector</b>	Handicraft & Local Resource Based Skills
<b>3. Entry Qualification</b>	Minimum 5 <sup>th</sup> Pass
<b>4. Minimum Age (in years)</b>	15
<b>5. Duration</b>	<b>59 days/ 354 hrs.</b>
<b>6. Provision of Tool kit</b>	No
<b>7. Terminal Competency</b>	<p>After completion of the course the trainee will be able to:</p> <ul style="list-style-type: none"> <li>➤ recall locations of availability of red clay raw material in Rajasthan;</li> <li>➤ recall physical and chemical properties of red clay raw material;</li> <li>➤ crush and grind raw material;</li> <li>➤ process clay using different systems;</li> <li>➤ use different types of wheel in red clay production technology;</li> <li>➤ undertake fabrication of different red clay products;</li> <li>➤ undertake drying and firing;</li> <li>➤ classify red clay products and their qualities;</li> <li>➤ recall nature and properties of raw material of glazes; and</li> <li>➤ undertake firing of glazed products;</li> </ul>

	<b>Approx. hrs.</b>
<b>8. Registration, Inauguration, introduction and objectives of the course</b>	2

<b>9. Course content</b>			
<b>Practical Competencies</b>	<b>Approx. hrs.</b>	<b>Underpinning Knowledge (Theory)</b>	<b>Approx. hrs.</b>
<b>Terracotta Pots</b>			
<p><b>Fabrication Method:</b></p> <ul style="list-style-type: none"> <li>• Practice of Crushing &amp; Grinding of Raw Materials.</li> <li>• Demonstration of Clay Processing &amp; Body mixes - Beating &amp; Pugging System, Tank &amp; Sieve System, Ball Milling &amp; Sieve, Tank - Blunger Sieve System, Improved Industrial System.</li> <li>• Practice of Fabrication techniques for different red clay products; Slip Casting, Plastic forming method, Semi dry &amp; dry pressing method.</li> <li>• Demonstration of Different types of Wheel used in Red Clay Technology; Traditional Wheel, An Improved Wheel, Kick &amp; Chain Wheel, Motorized Wheel, Jiggering and Jollying.</li> </ul>	78	<p><b>Introduction &amp; Raw Materials:</b></p> <ul style="list-style-type: none"> <li>• Red Clay Pottery, Pre-historic Background; Raw-materials &amp; their types, Mode of Occurrence &amp; Location of Red Clay in Rajasthan.</li> <li>• Different Additives &amp; Their Function.</li> <li>• Physical &amp; Chemical Properties of raw materials.</li> <li>• General Equipment &amp; Their Specifications.</li> </ul>	15
		<p><b>Fabrication Method:</b></p> <ul style="list-style-type: none"> <li>• Different methods of Clay Processing &amp; Body mixes - Beating &amp; Pugging System, Tank &amp; Sieve System, Ball Milling &amp; Sieve, Tank - Blunger Sieve System, Improved Industrial System.</li> </ul>	15

<b>Drying &amp; Firing:</b> <ul style="list-style-type: none"> <li>• Demonstration of Open Top Up draught, Permanent Up draught, European Up-draught, Down draught.</li> <li>• Demonstration of Gas fired, Oil fired and Electric kilns.</li> <li>• Demonstration of traditional Firing System.</li> </ul>	78	<b>Drying &amp; Firing:</b> <ul style="list-style-type: none"> <li>• Drying &amp; Firing Processes.</li> <li>• Kilns &amp; Kiln construction; Bonfire, Pit Kiln with Walls.</li> <li>• Open Top Up draught, Permanent Up draught, European Up-draught, Down draught.</li> <li>• Gas fired, Oil fired and Electric kilns.</li> <li>• How to make traditional Firing System.</li> </ul>	15
		<ul style="list-style-type: none"> <li>• Classification of Red Clay (Terracotta) Products and their qualities, Value up-gradation of:               <ol style="list-style-type: none"> <li>1. Red clay products</li> <li>2. Red clay Jewellery Products</li> <li>3. Red clay Garden Pots Products</li> <li>4. Red clay Decorative Terracotta Murals Products</li> </ol> </li> </ul>	15
<b>Glazes &amp; Glazing:</b> <ul style="list-style-type: none"> <li>• Practice of Firing &amp; Decoration of Red clay products using different glazes.</li> </ul>	74	<b>Glazes &amp; Glazing:</b> <ul style="list-style-type: none"> <li>• Introduction, The nature of glazes.</li> <li>• General properties of glazes; Additive character, crystallization ability, mechanical strength, surface tension, viscosity.</li> <li>• Raw materials of glazes, types of glazes.</li> <li>• Firing &amp; Decoration techniques.</li> </ul>	12
		<b>Entrepreneurship &amp; Soft Skills and Computer Literacy Module:</b>	0
		<ul style="list-style-type: none"> <li>• Entrepreneurship – its necessity and charms of being an entrepreneur.</li> </ul>	1
		<ul style="list-style-type: none"> <li>• Who is an entrepreneur and characteristics of a successful Entrepreneur?</li> </ul>	2
		<ul style="list-style-type: none"> <li>• How to identify Business opportunities?</li> </ul>	2
		<ul style="list-style-type: none"> <li>• Steps for setting up a small scale venture.</li> </ul>	1
		<ul style="list-style-type: none"> <li>• Institutional support for entrepreneurship (whom to contact for what)</li> </ul>	2
		<ul style="list-style-type: none"> <li>• Government (Central/ State) Schemes and assistance from Banks/ other financial institutions - Procedures and formalities for getting loan.</li> </ul>	2
		<ul style="list-style-type: none"> <li>• How to prepare Business plan?</li> </ul>	2
		<ul style="list-style-type: none"> <li>• Financial literacy-Costing, Pricing, Profitability and Break Even Analysis.</li> </ul>	2
		<ul style="list-style-type: none"> <li>• Cash management in small enterprises.</li> </ul>	2

		• Accounting and Book Keeping	2
		• Introduction to Taxation	1
		• Shop and Establishment Act and its provisions.	1
		• Creativity, Problem solving & decision making.	1
		• Common mistakes generally made by entrepreneurs.	1
		• Interaction with successful entrepreneur and success stories.	2
		• Communication and Negotiation skills.	1
		• Interpersonal skills	1
		• How to Deal with customer attitude – Effective selling.	1
		• Marketing – Basic concepts/ Skills and effective mode of advertising.	1
		• Introduction to e-commerce.	2
<b>Computer Fundamentals</b> <b>Customize the Desktop Environment e.g.</b> Desktop, Start Menu, and Taskbar etc. Configuring & Migrating Files, Folders & Settings - Folder Views, Accessibility Settings	2	<b>Computer Fundamentals, MS-Office &amp; Internet</b> Introduction to Computers History of Computers Components of Hardware Peripherals	1
<b>MS Word</b> Creating, Organizing & Formatting Content Collaborating – Merge, Insert, View, Edit, Track Mode etc. Formatting & Managing Documents	4	<b>Concept of Operating System –</b> Windows XP, Exploring & Configuring the Windows XP Desktop Environment-Customize the Desktop, Start Menu, and Taskbar etc. Configuring & Migrating Files, Folders	1
<b>MS Excel</b> Creating, Analyzing & Formatting Data & Content Collaborating - Insert, View, Edit etc. Managing Workbooks	3	<b>Settings - Folder Views, Accessibility Settings</b> Features of Windows XP Understanding concepts of Word processing using MS-Word	1
<b>MS PowerPoint</b> Creating & Formatting Content Collaborating - Track, Edit, Add, Delete Comments, Merge Managing & Delivering Presentations	3	Understanding concepts of Electronic spreadsheet and various types of entries in it	
<b>Internet Concepts</b> Opening websites and downloading data Writing, reading and sending emails	4	<b>Understanding concepts of URL</b> Creating and Opening an E-mail account. Receiving and sending emails Searching information on Internet.	1
<b>Approx. Total Practical hours</b>	<b>246</b>	<b>Approx. Total Theory hours</b>	<b>106</b>
<b>Grand Total (2+246+106)</b>			<b>354</b>

#### 10. Tools, Equipments and Material for a batch of 30 trainees

S.No.	Description	Quantity
<b>Common Machines</b>		
1	Ball Mill	01
2	Glaze Spraying	01

3	Motorized Potter's Wheel	01
4	Jigar Jolly	01
5	Pug Mill	01
6	Gas Fired Kiln	01
7	Screw Press	01
8	Varner Caliper	01
9	Weighing Balance	01
10	Traditional Aawa Bhatti	01
	<b>Tools</b>	
11	5 Types of POP Modes Per Students	05 per trainee
12	Scale	01 per trainee
13	Brush	01 per trainee
14	Iron Cutter	01 per trainee
15	Paper Cutter	01 per trainee
16	Pencil	01 per trainee
17	Potters Knife	01 per trainee
18	Chapra	As required
19	Other Supporting Products & Tools	As required
	<b>Raw Material</b>	
20	Ball Clay, Red Clay, China Clay, Plaster of Paris, Silicate, Caustic Soda	As required for practice by each trainee

S.No.	Item	Quantity	S.No.	Item	Quantity
	<b>Hardware</b>			<b>Software:</b>	
1	Computers/Laptops	10 (one for three trainee)	6	Microsoft Windows 7/8/10 or UNIX/ LINUX or latest software	For all Systems
2	Power backup	For all Systems	7	Microsoft Office 2007/ 2010/ 2013 or latest software	For all Systems
3	Inkjet/Laser Printer (Network/USB Printer)	1	8	Antivirus Software (TVD/ Norton/ Quick Heal Total Security/ Kaspersky/ Any Popular brand)	For all Systems
4	Speaker	1	9	Internet Connection	For all Systems
5	Spare H/W components	As per requirement			