Curriculum
For
Certificate in Finishing and Joining Techniques in Ceramics
Six Months Duration Course
Code:VI81S007
(2013)
SCHEME OF STUDIES

Finishing and Joining Techniques

<table>
<thead>
<tr>
<th>Sr #</th>
<th>Modules</th>
<th>Theory Hours</th>
<th>Practical Hours</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Module 1 Quality Assurance of Green Ware</td>
<td>34</td>
<td>141</td>
<td>175</td>
</tr>
<tr>
<td>2</td>
<td>Module 2 Peeling of the ware</td>
<td>26</td>
<td>154</td>
<td>180</td>
</tr>
<tr>
<td>3</td>
<td>Module 3 Cutting and Edging</td>
<td>24</td>
<td>96</td>
<td>120</td>
</tr>
<tr>
<td>4</td>
<td>Module 4 Joining of the Ware</td>
<td>26</td>
<td>149</td>
<td>175</td>
</tr>
<tr>
<td>5</td>
<td>Module 5 Refinishing and Quality Control</td>
<td>15</td>
<td>70</td>
<td>85</td>
</tr>
<tr>
<td>6</td>
<td>Module 6 Safety Rules</td>
<td>15</td>
<td>50</td>
<td>65</td>
</tr>
</tbody>
</table>

TOTAL HOURS

<table>
<thead>
<tr>
<th>Theory Hours</th>
<th>Practical Hours</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>140</td>
<td>660</td>
<td>800</td>
</tr>
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NAME OF COURSE:

Finishing and Joining Techniques in Ceramics

Introduction of the Course
The Prime objective of the course is to train semi-skilled and skilled workers for local pottery/tableware/ceramics Industry. The following main topics (Modules) have been included in the course:-

1. Quality Assurance of Green Ware
2. Peeling of the ware
3. Cutting and Edging
4. Joining of the ware
5. Finishing and Quality Control of the ware
6. Health and Safety at workplace

This course is based on the competencies gained for workers. After this course worker/trainee will be skilled in “Finishing and Joining” in pottery/ceramic industry

OVERALL OBJECTIVE OF COURSE

1. The prime objective of this course of is to provide local ceramic industry with semi-skilled & skilled worker to work as Finisher and Joiner.

2. Semi-skilled and skilled worker produced by this training would help to reduce unemployment and poverty in the society

3. This training course is designed to create job opportunities for those primary pass students who fail to continue their schooling due to various social and economic factors.

4. This training program will provide opportunity to those who want to equip themselves with such knowledge and skills which will be helpful for their employment in local ceramics industry.
5. Further, this Curriculum is developed by considering the requirements of local market and need of the trade enabling the pass-outs to meet the job market to reduce the shortage of Semi Skilled and Skilled workers in this area.

6. Provide technical and vocational training basis which reflects the requirements of the industry.

COMPETENCIES GAINED AFTER COMPLETION OF COURSE

After completion of this course the student should be able to:

1. Explain the basic ceramic terms used in the whole process of Finishing and Joining Techniques.
2. Describe materials, their usage & properties.
3. Express the knowledge of proper moisture content required for finishing.
4. Explain the different cutting methods used for green ware cutting
5. Basic principles of joining
6. Explain the different joining techniques
7. Express the knowledge for joining complex shapes
8. Express the knowledge of the quality control
9. Explain the different finishing methods
10. Express the knowledge of Finishing and Joining faults and their remedies.
11. Explain all safety & health hazards involved during Finishing and Joining
12. Perform the filling in the given ware
13. Make paste for Joining
14. Apply the paste for the surfaces to join
15. Perform the joining of the desired ware
16. Make handles for joining by pressing, by coiling and by slip casting techniques
17. Identify the defective wares and able to remove the defects in the green ware
18. Measure, Cut and join the ware according to the demand of the product.
19. Work according to sketches or instructions
20. Prepare the surface of ware for Joining according to the shape of ware
21. Identify and maintain the moisture content during working with the ware
22. Handle various tools with safety.
23. Sharp and set the various types of tools of Finishing
24. Inspect and rectify the faults in finished wares.
25. Equip trainees with correct and efficient use of related tools
26. Sharpening and setting of various tools of joining
JOB OPPORTUNITIES AVAILABLE IMMEDIATELY AND IN THE FUTURE

- Pottery Industry
- Sanitary Industry.
- Training/teaching Institutes
- Tableware Industry
- Self employment.

TRAINEE ENTRY LEVEL

The trainee selected should be minimum Primary / Literate qualification.

MINIMUM QUALIFICATION OF TRAINER

1. Industrial experience of five years (minimum)

   Or

   Certificate course in respective field with two years of industrial experience

MEDIUM OF INSTRUCTION

Medium of instruction would be Urdu/Punjabi, but English would also be there, as the terminologies, standards, tools and equipment name are in English and they have to be learn them in the same language.
TIME FRAME OF ACCESSMENT

Duration of Course          Six Months
Total Hours                800 Hrs
Theory Hours               136 Hrs
Practical Hours            664 Hrs

SEQUENCE OF THE MODULES

Module 1: Quality Assurance of Green Ware
Module 2: Peeling of the Ware
Module 3: Cutting and Edging
Module 4: Joining of the Ware
Module 5: Finishing and Quality Control
Module 6: Safety Rules
# Finishing and Joining Techniques – Curriculum Overview

<table>
<thead>
<tr>
<th>Module Title and Aim</th>
<th>Learning Units</th>
<th>Theory¹ Days/hours</th>
<th>Workplace² Days/hours</th>
<th>Timeframe of modules / sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module 1: <strong>Quality Assurance of Green Ware</strong>&lt;br&gt;&lt;br&gt;Aim: To check the quality and identify the defects of the given ware for joining and finishing</td>
<td>1. Check the green ware for cracks&lt;br&gt;2. Check the shape and form of the ware&lt;br&gt;3. Perform the checking for bubbles/pinholes in the body of green ware&lt;br&gt;4. Perform the weight check of the ware&lt;br&gt;5. Check the ware after joining</td>
<td>34hrs</td>
<td>141</td>
<td>175</td>
</tr>
<tr>
<td>Module 2: <strong>Peeling of the ware</strong>&lt;br&gt;&lt;br&gt;Aim: Visualy check and make necessary arrangement to level the ware and fill the ware with slip to remove the defects</td>
<td>1. Make the corners of ware equal&lt;br&gt;2. Level the base of the ware&lt;br&gt;3. Dry the Ware upto leather hard&lt;br&gt;4. Prepare the ware for cutting</td>
<td>30</td>
<td>150 hrs</td>
<td>180hrs</td>
</tr>
<tr>
<td>Module 3 Cutting and Edging&lt;br&gt;&lt;br&gt;Aim: To Learn different Methods of Cutting</td>
<td>1. Make outline for cutting in the ware&lt;br&gt;2. Cutting the ware</td>
<td>30hrs</td>
<td>90 hrs</td>
<td>120</td>
</tr>
</tbody>
</table>

¹ Learning hours in training provider premises<br>² Training workshop, laboratory and on-the-job workplace
| Module 4: **Joining of the Ware**  
**Aim:** To Enable the trainee to understand the different joining techniques and able to join the relevant wares | 1. Prepare the clay mixture/paste for ware joining  
2. Clean the parts of the ware to be joined  
3. Apply the paste on the parts to be joined  
4. Press the two surfaces together softly  
5. Perform the cleaning after joining  
6. Make sure the moisture remain in green ware during the process of finishing and joining  
7. Ensure uniformity of moisture in Greenware at the time of joining | 25hrs | 150hrs | 175hrs |
| --- | --- | --- | --- | --- |
| Module 5: **Re- Finishing and Quality control of the ware**  
**Aim:** To Perform the final finishing of the final ware | 1. Perform the final finishing of the ware  
2. Perform the Quality Check of the ware. | 25 hrs | 60 hrs | 85hrs |
| Module 6: **Safety Rules**  
**Aim:** To apply safety requirements and standards | 1. Wear work clothes  
2. Wear Personal protective equipments  
3. Prepare the workplace  
4. Deal with work & health hazards. | 15 | 50 | 65 |
## Curriculum Contents (Teaching and Learning Guide)

### Module – 1: Quality Assurance of Green Ware

**Objective of the Module:** To check the quality and identify the defects of the given ware for joining and finishing

**Duration:** 175 hours  
Theory: 34 hours  
Practice: 141 hours

<table>
<thead>
<tr>
<th>Learning Unit</th>
<th>Learning Outcomes</th>
<th>Learning Elements</th>
<th>Duration</th>
<th>Materials Required</th>
<th>Learning Place</th>
</tr>
</thead>
</table>
| 1. Check the shape and form of the ware. | Able to identify the shape of mould and final ware | Knowledge of:  
spare line of ware  
Shape of ware to be finished trimming  
**Ability to:**  
compare the shape of ware with actual design | Th: 9 hrs Pr: 35hrs | - Models, Wall Charts, Multimedia, White Board, Stationary, Green ware pieces, Moulds | Class room Workshop |
| 2. Check the green ware for cracks | Able to check the existing ware if there are any cracks | Knowledge of:  
Green ware  
Defects in the product  
Precision accuracy of shape  
**Ability to:**  
Identify green ware products  
Distinguish between the cracks or defaults in the product | Th: 9 hrs Pr: 35hrs | Wall Charts, White Board, Stationary, Green ware pieces, | Class Room Workshop |
| 3. Perform the checking for bubbles/pin | Able to check the pinholes in the ware  
Is able to identify the bubbles (if any) in the ware | Knowledge of:  
Describe the Pinholes  
Disadvantages of pin holes in | Th: 8hrs Pr: 36hrs | Wall Charts, Multimedia, White Board, Stationary, | Class Room Workshop |
<table>
<thead>
<tr>
<th>holes in the body of green ware</th>
<th>green ware</th>
<th>green ware</th>
<th>Table</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ability to:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>identify common quality failures like pin hole</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. Perform the weight check of the ware</th>
<th>Able to check the weight on weighing scale</th>
<th><strong>Knowledge of:</strong></th>
<th>Th:8 hrs Pr:35hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Final Weight of the ware</td>
<td>White Board, Stationary, Weighting Balance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Final shape of the ware</td>
<td>Classroom Workshop</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Weighting Scale</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Ability to:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Measure weight of the ware</td>
<td></td>
</tr>
</tbody>
</table>
Module 2 : Peeling of the ware

Objective of the Module: .....After completing this module trainee will be able to visulaly check and make necessay arrangement to level the ware and fill the ware with slip to remove the defects
Duration:  180hours  Theory: 26 hours  Practice:  154 hours

<table>
<thead>
<tr>
<th>Learning Unit</th>
<th>Learning Outcomes</th>
<th>Learning Elements</th>
<th>Duration</th>
<th>Materials Required</th>
<th>Learning Place</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Make the corners of ware equals</td>
<td>Able to make ware symmetrical</td>
<td><strong>Knowledge of:</strong> Describe the Basic Mould shape Techniques of symmetry <strong>Ability to:</strong> Identification of size Rounding/Designing Corners</td>
<td>Th:12 Pr:74</td>
<td>Wall Charts , White Board, Stationary, - knife - foam - Plastic Tub</td>
<td>Classroom / Workplace</td>
</tr>
<tr>
<td>2. Level the base of the ware</td>
<td>Able to base leveling with surface</td>
<td><strong>Knowledge of:</strong> Basic Mould and model <strong>Ability to:</strong> Level the base</td>
<td>Th:7 Pr:40</td>
<td>Models, White Board, - knife - foam - Plastic Tub - Glass Sheet</td>
<td>Classroom / Workplace</td>
</tr>
<tr>
<td>3. Dry the Ware</td>
<td>Able to identify the dry/wetting</td>
<td><strong>Knowledge of:</strong> Describe bone dry and leather hard wares Moisture content <strong>Ability to:</strong> Identify Moisture Identify bone dry ware Identify leather hard ware</td>
<td>Th:7 Pr:40</td>
<td>White Board, Stationary, - Dryer - Blower - Plastic Tub</td>
<td>Classroom / Workplace</td>
</tr>
</tbody>
</table>
# Module 3: Cutting and Edging

**Objective of the Module:** To Learn different Methods of Cutting.

**Duration:** 120 hours  
Theory: 24 hours  
Practice: 96 hours

<table>
<thead>
<tr>
<th>Learning Unit</th>
<th>Learning Outcomes</th>
<th>Learning Elements</th>
<th>Duration</th>
<th>Materials Required</th>
<th>Learning Place</th>
</tr>
</thead>
</table>
| 1. Make outline for cutting in the ware | Able to check the groves | **Knowledge of:**  
tools used for the cutting  
Design knowledge of the ware  
**Ability to:**  
Identify the proper place of cutting  
Make Scrating lines in the Ware  
Add texture to the ware | Th:12hrs  
Pr:48 | - knife  
- foam  
- tool kit | Workplace  
ClassRoom |
| 2. Cutting the ware | Able to identify the places for holes and outlines for cutting in i.e. lamps, teapots etc | **Knowledge of:**  
Cutting Techniques  
smooth cutting  
trouble Shoot  
Knowledge of the final ware  
**Ability to:**  
Identify the proper place to cut  
Use the cutting tools  
Make hole/designing in the ware | Th:12hrs  
Pr:48hrs | - Apron  
- knife  
- foam  
- sponge | Workplace |
## Module 4: Joining of the Ware

**Objective of the Module:** To Enable trainee to understand the different joining techniques and able to join the relevant wares

**Duration:**
- **Theory:** 26 hours
- **Practice:** 149 hours

<table>
<thead>
<tr>
<th>Learning Unit</th>
<th>Learning Outcomes</th>
<th>Learning Elements</th>
<th>Duration</th>
<th>Materials Required</th>
<th>Learning Place</th>
</tr>
</thead>
</table>
| 1. Prepare the mixture/paste for ware joining | Is able to formulate the mixture / paste | **Knowledge of:**  
- Materials of mixture  
- Formulation of Joining paste  
- Physical Properties of materials and mixture/paste  
- Weighing Balance  
- Adjustment of water level  
**Ability to:**  
- Understand different mixing techniques  
- Make the mixture/paste for joining  
- Use weighing Balance | Th: 5hr  
Pr:30 hrs | Slip body  
Moulds to Dry the Slip  
Plastic Tub | Workplace |

| 2. Clean the parts of the ware to be joined | Able to identify the portion / part of the ware to be joined | **Knowledge of:**  
- Importance of Cleaning  
- Techniques for Cleaning  
- Tools used for cleaning  
**Ability to:**  
- - foam  
- - duster  
- - brush  
- - Plastic Tub  
- - Knife | Th: 5hr  
Pr:30 hrs | - foam  
- duster  
- brush  
- Plastic Tub  
- Knife | Classroom Workshop |
3. **Apply the paste on the parts to be joined**

   - Wet the wares to be joined properly
   - Perform wetting with sponge
   - Clean the ware

   **Knowledge of:**
   - Design knowledge of ware
   - Joining of complicated forms
   - Paste Properties

   **Ability to:**
   - Understand the joining parts of the ware
   - Apply paste on the ware

   Th: 6hrs
   Pr: 29 hrs

   - Slip body
   - Sponge

   **Workshop**

4. **Perform the cleaning after joining**

   - Able to join one, two & three ware

   **Knowledge of:**
   - Tools used for cleaning
   - Precautions during the process

   **Ability to:**
   - Clean the ware with sponge

   Th: 5hrs
   Pr: 30 hrs

   - Sponge
   - Duster
   - Knife

   **Workshop**

5. **Make sure the moisture remain in green ware during the course of finishing and Joining**

   - Moisture retention exercise after joining
   - Adjustment of Moist if required

   **Knowledge of:**
   - Drying time of the ware
   - Troubleshooting

   **Ability to:**
   - Add moisture
   - Visual inspect the ware for moisture

   Th: 5hrs
   Pr: 30 hrs

   **Workshop**
Module 5: Re-Finishing and Quality Control

Objective of the Module: To Perform the final finising of the final product
Duration: 85 hours  Theory: 15 hours  Practice: 70 hours

<table>
<thead>
<tr>
<th>Learning Unit</th>
<th>Learning Outcomes</th>
<th>Learning Elements</th>
<th>Duration</th>
<th>Materials Required</th>
<th>Learning Place</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Perform the final finishing of the ware</td>
<td>Able to refinish and fine finish of the ware</td>
<td>Knowledge of: Finishing and the quality control Describe steps in finishing Finishing required for different forming process Describe tools for finishing Final shape of the ware</td>
<td>Th:5hrs Pr:10 hrs</td>
<td>- Water - Foam</td>
<td>Workshop</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ability to: Understand different finishing tools Make final Cutting the spare line and seems Make final trimming of the ware Perform smoothness with sponge</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Perform the quality check of the ware</td>
<td>Is able to assess the quality of product</td>
<td>Knowledge of: Tools and Equipments used</td>
<td>Th:5hrs Pr:30 hrs</td>
<td></td>
<td>Workshop</td>
</tr>
</tbody>
</table>
3. Quality Control

<table>
<thead>
<tr>
<th>Knowledge of:</th>
<th>Th:5hrs</th>
<th>Pr:30 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Able to finish the ware according to the design</td>
<td>Workshop</td>
<td></td>
</tr>
</tbody>
</table>

Knowledge of:
- Acceptable quality of the finished green ware
- Standard of the ware

Ability to:
- Understand the quality control
- Perform sorting of the finished ware as per Design and requirement
# Module 6: Safety Rules

**Objective of the Module:** To apply safety requirements and standards

**Duration:**
- Theory: 15 hours
- Practice: 50 hours
- Total: 65 hours

<table>
<thead>
<tr>
<th>Learning Unit</th>
<th>Learning Outcomes</th>
<th>Learning Elements</th>
<th>Duration</th>
<th>Materials Required</th>
<th>Learning Place</th>
</tr>
</thead>
</table>
| 1. Wear safety clothes | Is able to understand the importance of person safety | **Knowledge of:**
  - Describe the Importance of safety
  - Importance of safety Cloth
  
  **Ability to:**
  - Labels the tags
  - Wear safety cloth | Th:4hrs Pr:13hrs | - Apron
  - Dust Mask | Class Room Workshop |
| 2. Wear Personal protective equipments | Is able to know the safety equipment used | **Knowledge of:**
  - Describe Personal protective equipments
  - Describe the safety of the different parts of the human body
  
  **Ability to:**
  1. Understand personal protective equipment
  2. Perform protection of hands and arms
  3. Wear safety glasses | Th:4hrs Pr:13hrs | - Apron
  - Dust Mask
  - Safety Shoes
  - Safety Glasses | Class Room Workshop |
| 3. Prepare the Work place | Able to know the importance of the safe work place and its advantages | **Knowledge of:**  
Housekeeping and work place preparation to start the job  
Safe working environment and its advantages  
Relation of organized workplace & Performance  
**Ability to:**  
1. Select and identify the tools required  
2. Place and handle the tools and equipment involved | Th:4hrs  
Pr:13hrs  
- White/Black board  
- Working Table  
- Information sheets  
- Exercise sheets  
- Work sheets  
- Clean Equipment | Class room Workshop |
|--------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------|-----------------------------|
| 4. Deal with work & health hazards | Able to understand the work & health hazards  
Able to know about the possible injuries  
Able to know about the first aid | **Knowledge of:**  
Health hazards  
Possible work hazards & injuries  
First Aid provision and Emergency response  
**Ability to:**  
1. Remain composed and provide first aid to the fellow who is suffering  
2. Respond and call in the first aid | Th:3hrs  
Pr:11hrs  
- White/Black board  
- OHP  
- Transparencies  
- Information sheets  
- Exercise sheets  
- Work sheets  
- First aid box | Class room Workshop |
## Assessment Template

### Module 1:- : Quality Assurance of Green Ware

<table>
<thead>
<tr>
<th>Learning Units</th>
<th>Theory hours</th>
<th>Workplace Days/hours</th>
<th>Recommended formative assessment</th>
<th>Recommended Methodology</th>
<th>Scheduled Dates</th>
</tr>
</thead>
</table>
| 1. Check the green ware for cracks | 34 | 141 | 1. Explain the Ceramics and its common types  
2. Illustrate green ware  
3. Describe different forming techniques  
4. Explain defects found in green ware wares  
5. Demonstrate to identify the defects like crack in the given ware | Short Question and answer Task | |
| 2. Check the shape and form of the ware. | | | 6. Describe the importance of the given ware  
7. Demonstrate to check the given ware shape and form compare to the final product | Task | |
| 3. check for bubbles/pinholes in the body of green ware | | | 8. Explain the pin holes defects in green ware  
9. Demonstrate to identity these defects on the given ware | Short Question and answer, Oral test, Task | |
| 4. Perform the weight check of the ware | | | 10. Explain the importance of Weight checking  
11. Perform the weight check of the ware | Oral test, Task | |
## Module 2: Peeling of the Ware

<table>
<thead>
<tr>
<th>Learning Units</th>
<th>Theory hours</th>
<th>Workplace Days/hours</th>
<th>Recommended formative assessment</th>
<th>Recommended Methodology</th>
<th>Scheduled Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Make the corners of ware equals</td>
<td>26</td>
<td>154</td>
<td>Demonstrate to make corners of the given ware equals</td>
<td>Short Question and answer, Task</td>
<td></td>
</tr>
<tr>
<td>2. Level the base of the ware</td>
<td></td>
<td></td>
<td>Demonstrate to leveling of the ware</td>
<td>Short Question Task</td>
<td></td>
</tr>
<tr>
<td>3. Dry the Ware</td>
<td></td>
<td></td>
<td>Explain the terms used for the dry wares Demonstrate to wet the ware if necessary</td>
<td>Oral test,</td>
<td></td>
</tr>
</tbody>
</table>
### Module 3:- Cutting and Edging

<table>
<thead>
<tr>
<th>Learning Units</th>
<th>Theory hours</th>
<th>Workplace Days/hours</th>
<th>Recommended formative assessment</th>
<th>Recommended Methodology</th>
<th>Scheduled Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Make outline for cutting in the ware</td>
<td>24</td>
<td>96</td>
<td>Explain the different cutting techniques used for green ware</td>
<td>Short Question and answer, Task</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Describe the tools used for the designing</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Demonstrate to make outline for the cutting of the given ware of the given pattern by any methods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Cutting The Ware</td>
<td></td>
<td></td>
<td>Explain how to make the hole technique</td>
<td>Short Question and answer, Task</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Demonstrate to perform the cutting and making hole of the given ware</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Module 4: Joining of the Wares

<table>
<thead>
<tr>
<th>Learning Units</th>
<th>Theory hours</th>
<th>Workplace Days/hours</th>
<th>Recommended formative assessment</th>
<th>Recommended Methodology</th>
<th>Scheduled Dates</th>
</tr>
</thead>
</table>
| 3. Prepare the mixture/paste for ware joining | | | Define Joining of green ware and its different techniques  
Explain the joining of handles  
Explain the formation of handles by different techniques  
Define and explain the joining paste  
Perform the making of Handle by different techniques  
Make the joining paste | | Short Question and answer, Oral test, Task |
| 4. Clean the parts of the ware to be joined | 26 | 149 | Explain the importance of cleaning during joining  
Demonstrate to clean the given wares for joining | Short Question and answer, Oral test, Task |
| 5. Apply the paste on the parts to be joined | | | Explain joining of complicated forms  
Demonstrate to apply the paste on the wares to be joined | Short Question and answer, Oral test, Task |
| 6. Perform the cleaning after joining | | | Explain the importance of cleaning of wares after joining  
Perform the test to the cleaning of wares after joining | Short Question and answer, Oral test, Task |
| 7. Make sure the moisture remain in green ware during the course of finishing and joining | | | Explain the moisture content  
Perform the moisture measurement test of the joined ware | Short Question and answer, Oral test, Task |
## Module 5: Finishing and Quality Control

<table>
<thead>
<tr>
<th>Learning Units</th>
<th>Theory hours</th>
<th>Workplace Days/hours</th>
<th>Recommended formative assessment</th>
<th>Recommended Methodology</th>
<th>Scheduled Dates</th>
</tr>
</thead>
</table>
| 8. Perform the final finishing of the ware                                       | 15           | 70                   | 1. Explain finishing with respect to quality control  
2. Write down the steps of finishing for different green wares  
3. Explain the finishing tools used for a given job  
4. Perform the finishing of the given ware | Short Question and answer Task                                                   |                 |
| 9. Perform the quality check of the ware                                        | 15           | 70                   | 5. Explain the importance of the soft finishing of the wares  
6. Explain the tools used for soft finishing  
7. Perform the file of the given green ware | Task                                                      |                 |
| 10. Quality Control                                                             |              |                      | 8. Explain the quality control in the finished green ware  
9. Perform the quality control tests on the given wares | Short Question and answer, Oral test, Task                                       |                 |
# Module 6: Follow Safety Rules

<table>
<thead>
<tr>
<th>Learning Units</th>
<th>Theory hours</th>
<th>Workplace Days/hours</th>
<th>Recommended formative assessment</th>
<th>Recommended Methodology</th>
<th>Scheduled Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>12. Wear Personal protective equipments</td>
<td></td>
<td></td>
<td>1. Explain the Personal protective equipments 2. Explain the safety of the different parts of the human body 3. Demonstrate to wear Personal protective equipments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. Prepare the workplace</td>
<td>15</td>
<td>50</td>
<td>1. Know how to prepare workplace for various jobs involved in executing one project. 2. Prepare the workplace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. Deal with work hazards, accidents &amp; injuries</td>
<td></td>
<td></td>
<td>1. Explain work hazards, injuries &amp; required first aid 2. Explain the hazards and safety measures involved in the operation of various machinery 3. Deal with work hazards, accidents &amp; injuries</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### List of Tools, Machinery & Equipment

<table>
<thead>
<tr>
<th>Name of Trade</th>
<th>Finishing &amp; Joining Techniques</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>6 Months (800 hrs)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name Equipment / Tools/Machinery</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Sponge</td>
</tr>
<tr>
<td>2.</td>
<td>Tool Kit</td>
</tr>
<tr>
<td>3.</td>
<td>Knife/Blades</td>
</tr>
<tr>
<td>4.</td>
<td>Thib</td>
</tr>
<tr>
<td>5.</td>
<td>Wheel</td>
</tr>
<tr>
<td>6.</td>
<td>Plastic Tub</td>
</tr>
<tr>
<td>7.</td>
<td>Regmal</td>
</tr>
<tr>
<td>8.</td>
<td>Safety Glasses</td>
</tr>
<tr>
<td>9.</td>
<td>Weighing scale</td>
</tr>
<tr>
<td>10.</td>
<td>water</td>
</tr>
<tr>
<td>11.</td>
<td>Apron</td>
</tr>
<tr>
<td>12.</td>
<td>Wood Sand paper</td>
</tr>
<tr>
<td>13.</td>
<td>Mould</td>
</tr>
</tbody>
</table>
Reference Books


2. Lorette Espi, Step by Step Pottery & Ceramics, Crescent Books, New York


5. Jeff Zamek, Safety in the Ceramics Studio: How to Handle Ceramic Materials Safely
Contributions for Development of This Curriculum

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<td>Glass &amp; Ceramics Pottery Center Shad rah</td>
<td>Emco Industries</td>
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<th>Mr. Nazia</th>
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