

**MAHARASHTRA STATE BOARD OF VOCATIONAL EDUCATION EXAMINATION,
MUMBAI -51**

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|---------|--|---|-------|-------|------------|------------|--|--|---------|------------|-----------------|---------|----------|------------|------------|---|----------|------------------------------|------|-------|-----|----|---|----------|------------------------|------|-------|-----|-----|---|----------|------------|-------|-------|-----|----|--|--|-------|--|--|-----|-----|
| 1 | Name of Syllabus | C.C. IN BRICK LAYER – CUM – PLASTERER (304102) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Max.Nos of Student | 25 students. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Duration | 6 Month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Type | Part Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Nos Of Days / Week | 6 Days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Nos Of Hours /Days | 4 hrs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Space Required | Workshop = 300 Sq feet Class Room = 200 Sq feet TOTAL = 500 Sq feet | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Entry Qualification | 7 th passed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Objective Of Syllabus/ introduction | To provide systematic training of Brick Layer – Cum – Plasterer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Employment Opportunity | Self employment / May get job in concern field. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Teacher’s Qualification | Diploma in CIVIL ENGINEERING . ITI from relevant Branch. At least 2 Year’s Practical experience. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Training System | Training System Per Week <table><tr><td>Theory</td><td>Practical</td><td>Total</td></tr><tr><td>6 Hours</td><td>18 Hours</td><td>24 Hours</td></tr></table> | | | | | | | Theory | Practical | Total | 6 Hours | 18 Hours | 24 Hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theory | Practical | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 Hours | 18 Hours | 24 Hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Exam. System | <table><tr><td>Sr. No.</td><td>Paper Code</td><td>Name of Subject</td><td>TH/PR</td><td>Hours</td><td>Max. Marks</td><td>Min. Marks</td></tr><tr><td>1</td><td>30410211</td><td>Brick Masonry and Plastering</td><td>TH-I</td><td>3 hrs</td><td>100</td><td>35</td></tr><tr><td>2</td><td>30410221</td><td>Brick Work and Setting</td><td>PR-I</td><td>6 hrs</td><td>200</td><td>100</td></tr><tr><td>3</td><td>30410222</td><td>Plastering</td><td>PR-II</td><td>3 hrs</td><td>100</td><td>50</td></tr><tr><td></td><td></td><td>Total</td><td></td><td></td><td>400</td><td>185</td></tr></table> | | | | | | | Sr. No. | Paper Code | Name of Subject | TH/PR | Hours | Max. Marks | Min. Marks | 1 | 30410211 | Brick Masonry and Plastering | TH-I | 3 hrs | 100 | 35 | 2 | 30410221 | Brick Work and Setting | PR-I | 6 hrs | 200 | 100 | 3 | 30410222 | Plastering | PR-II | 3 hrs | 100 | 50 | | | Total | | | 400 | 185 |
| Sr. No. | Paper Code | Name of Subject | TH/PR | Hours | Max. Marks | Min. Marks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 30410211 | Brick Masonry and Plastering | TH-I | 3 hrs | 100 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 30410221 | Brick Work and Setting | PR-I | 6 hrs | 200 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 30410222 | Plastering | PR-II | 3 hrs | 100 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total | | | 400 | 185 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr.no | THEORY-I Brick Masonry and Plastering |
|--------------|--|
| 1 | Calculation of Quantities - Brick Masonry and Plastering. |
| 2 | Tools required for brick masonry. |
| 3 | Methods of laying bricks in walls. |
| 4 | Bonds in Brick-work. |
| 5 | Precautions to be taken in the construction of Brick-work. |
| 6 | Methods of laying new work with old work. |
| 7 | Defects and their remedies in Brick Masonry. |

| PRACTICAL - I Brickwork and Setting |
|--|
| Brick – Practical Observation such as absorption, texture, ringing, and breaking stocking and bricks. Counting of bricks, field testing of bricks – such as for texture, dimensions, water absorption colour and efflorescence and efflorescence. |
| Cement of lime – Testing of cement and lime in the field. |
| Setting of bricks for spread foundation (Dry bricks without mortar) |
| Setting of bricks for 11/2 thick brick wall in English bond up to 2 meter height. |
| Setting of bricks for 11/2 thick brick wall in Flemish bond up to 2 meter height |
| Setting bricks for 2 brick thick pillar up to 11/2 meter height. |
| Calculation of Quantities of materials for :- <ul style="list-style-type: none"> a. Plain cement concrete of different proportions. b. Brick & Stone Masonry in cement and lime mortar. c. Plastering and Painting with cement mortar in different proportions. |

| PRACTICAL - II - Plastering |
|---|
| Maintenance of Brick Masonry construction. |
| Supervising the brick work. |
| Necessity of Plaster. |
| Tools required for Plastering. |
| Preparation of surface for Plastering. |
| Application of Plaster. |
| Lime Plastering. |
| Cement Plastering. |
| Currying of Plaster. |
| Defects in Plastering. |
| Remedies, Repairs, Precautions in Plastering. |

• **LIST OF TOOLS AND EQUIPMENTS :-**

| Sr.No.. | Name of Tools | Quantity |
|----------------|---|-----------------|
| 1. | Scale 1 meter | 1. Nos |
| 2. | Shovels, Trawels, Buckets, Sted plates, store, moulds, for repairing clabe of 7.5 m. siz. | 2 each |
| 3. | Sopades, Rammersm Iron-Pan, can Barkets. Line cori, POins | 3 each |
| 4. | Steel tapes, try squans. 20 m. | 2 each |
| 5. | Brich axe masonis square plumb rule | 2 each |
| 6. | Brush , container format | 2 each |
| 7. | Plumb bobs, Pincers, knife. | 2 each |
| 8. | Dumpy level | 2 Nos |

• **REFERENCE BOOK :-**

| Sr.No | BOOKS | AUTHOR | PUBLICATIONS |
|--------------|-------------------------------------|------------------------|---------------------------------|
| 1 | Brick work Vol I & IV | Cutter W. | Cassel. |
| 2 | Plastering | Dan stag & Brain Pagg. | Newness Technical Books. |
| 3 | Teach Yourself Brick work. | Braley E. L. | English Universities Press Ltd. |
| 4 | A. Text Book of Building Meterials. | G. J. Kulkarni | ----- |
