SYLLABUS FOR BASIC MASONRY TRAINING

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SYLLABUS FOR BASIC MASONRY TRAINING

Duration at Skills Training Institute : 600 Hrs
(Spread in three months)

1. Introduction to L&T / ECCG : 3 Hrs
2. Introduction to the Trade : 3 Hrs
3. Introduction to Trade Glossary : 6 Hrs
4. Introduction to Tools & Equipment : 12 Hrs
   - Hand Tools of the Trade
   - Learning to use the Basic Tools
   - Learning to care of Basic Tools
   - Basic related equipment’s of the Trade
   - Learning to use and care related equipments’s

5. Documentation : 24 Hrs
   - Basic Working Drawings introduction
     - Interpreting Site Drawings and Details
     - Taking of dimensions from scale drawings
     - Determining the accuracy of dimensions given on scale Drawings
   - Sketches
     - Interpreting line sketches and details
   - Information Sheets
     - Interpreting handouts
     - Estimation of Basic Tools & Materials
6. Basic Materials

- Mortars
  - Introduction

- Concrete
  - Coarse aggregates
  - Fine aggregates
  - Cement
  - Water

- Bricks
  - Introduction to different types and Textures
  - Selection of Bricks
  - Understanding uses
  - Cutting Bricks in different methods, sizes

- Sills & Lintels
  - In-situ concrete lintels casting
  - Bedding pre-cast sills and lintels

- Rubble
  - Introduction to Random Rubble masonry
    (Uncoursed)

7. Testing

- Water Test
- Material Test
- Setting Out
- Levelling
- Basic Marking Out
8. Safety : 24 Hrs
   - Health & Safety
   - Eye protection
   - Tidiness on Site
   - Personal safety
   - Moving
   - Lifting
   - Carrying
   - Working at Heights (Ladders / scaffold)

9. Practice Modules : 348 Hrs
   - **F1.** Mixing mortar : 36 Hrs
     - Proportion mortar ingredients for specific mixes
     - Type of Sand, Cement, Lime, Water,
       Mixing procedures
     - Mix mortar manually with hand tools and equipment
     - Mix mortar with a power mixer
     - Lifting, carrying and moving
     - Site tidiness
     - Correct Safety practices
   - **F2.** Building of Brick Wall Stretcher : 24 Hrs
     - Layout half brick wall in stretcher Bond
     - Checking of alignment, line level
     - Pointing of joints
     - Tidiness of surface
     - Curing and Importance
• **F3. Building 1 Brick Wall (English Bond)**  :  24 Hrs
  - Arrangement of Materials
  - Basic marking out
  - Bonding
  - Tolerances
  - Safety
  - Site Tidiness

• **F4. Building 1 Brick Wall using Right Angle English Bond**  :  32 Hrs
  - Arrangement of Materials
  - Basic marking out
  - Bonding
  - Tolerances
  - Safety
  - Site Tidiness

• **F5. Building 1½ Wall Corner (English Bond)**  :  12 Hrs
  - Arrangement of Materials
  - Basic marking out
  - Bonding
  - Tolerances
  - Safety
  - Site Tidiness

• **F6. Building 1 x 1½ Brick Wall Square Junction**  :  12 Hrs
  - Arrangement of Materials
  - Basic marking out
  - Bonding
  - Tolerances
  - Safety
  - Site Tidiness
• **F7.** Building 1 Brick Wall Corner  
  Flemish Bond  
  • Arrangement of Materials  
  • Basic marking out  
  • Bonding  
  • Tolerances  
  • Safety  
  • Site Tidiness  

• **F8.** Building 1 Brick Wall Sq. Junction  
  Flemish Bond  
  • Arrangement of Materials  
  • Basic marking out  
  • Bonding  
  • Tolerances  
  • Safety  
  • Site Tidiness  

• **F9.** Skill Consolidation, Fixing Window & Door Frames  
  • Reading layout plans  
  • Handling Frames  
  • Fixing Frames  
  • Protection of Frames  
  • Checking Tolerances  
  • Taking remedial action  
  • Stores requisition  
  • Information Sheet  
  • Working at Heights, Ladders - Scaffold
F10. Plastering
- Introduction to different types of Plastering
- Surface preparation
- Fixing of accessories
- Importance of level pads
- Application of different coats
- Curing and importance
- Protection of surface

F11. Construction of Attached Piers
- Interpreting drawings
- Cutting, preparing squint bricks
- Bonding methods
- Use of gauge
- Plumbing points
- Setting out

F12. Construction of Detached Piers
- Interpreting drawings
- Cutting, preparing squint bricks
- Bonding methods
- Use of gauge
- Plumbing points
- Setting out

F13. Foundation work up to D.P.C
- Setting out
- N-4.5 method, interpreting simple sketches/drawings
- Building bricks work below D.P.C
- Understanding simple shoring
- **F14. Building Junction Manhole**
  - Interpreting simple drawing
  - Fixing pipes
  - Forming Channels
  - Positioning steps
  - Fixing pre-cast cover
  - Internal/external rendering

- **F15. Random Rubble Wall (Un coursed)**
  - Introduction to cutting and chipping of random rubble
  - Basic principles of avoiding continuous joints

10. **Introduction to Trade on Job Site** : 64 Hrs

11. **Revision** : 60 Hrs

12. **Final Testing & Evaluation** : 24 Hrs