

Brick Tending Duties Syllabus

Time: 40 hours

Maximum Class Size: 12

Prerequisites: None

Course Description: The responsibility of a Bricktender is to properly and safely set-up a masonry job. The Bricktender must mix mortar, and stock block and brick. They also must safely operate hand and power tools as well as safely operate a forklift. In addition, they build scaffold, stock block, stock brick, prepare all materials needed, and supply them accurately to Brick Masons. Performing all these tasks in an efficient and accurate manor is essential for a Bricktender. This course prepares Laborers and Apprentices in all the scopes of work and duties required to work on and become a valued part of a masonry project.

Goals/Objectives/Student Learning Outcomes:

- Identify the physical and health hazards on the jobsite.
- Identify the Personal Protective Equipment required for the scope of work.
- Describe how to prevent accidents and stay safe on the jobsite.
- Identify various hand tools, power tools, and heavy equipment associated with scope of work.
- Calculate basic construction math problems including volume and area.
- Convert inches to decimal feet.
- Estimate masonry materials, including block, brick, rebar, etc.
- Operate Forklift in a safe, effective and efficient manner.
- Using a Forklift, stock masonry materials on ground level and scaffolding.
- Layout and build scaffold and capacity.
- Set up block-saw and make specific cuts.
- Set up mixing area correctly.
- Mix mortar by hand.
- Mix mortar using a power mixer.
- Set up power bolt cutters.
- Set up manual bolt cutters.
- Cut and bend reinforced steel (rebar).
- Clean up, inventory and store equipment, materials and work area.

Standards

OSHA 29CFR:

- 1926.28: Personal Protective Equipment
- 1926.21: Safety Training & Education

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- 1926.52: Occupational Noise Exposure
- 1926.150 Fire Protection
- 1926:151 Fire Prevention
- 1926.250(b)(7) Materials Handling & Storage
- 1926.300: Tools-Hands and Power
- 1926.450: Scaffolds
- 1926.500: Fall Protection
- 1926.55: Gases, Vapors, Fumes, Dust, & Mist
- 1926.706: Subpart Q Masonry construction
- 1926.700: Concrete and Masonry
- 1910.178: Powered Industrial Trucks
- 1910.1200: Hazard Communication
- 1926.1153: Silica

Classroom Rules and Procedures

- All classes begin at 6:30 am and end at 3:00 pm
- Upon entering classroom, all participants must sign in and be seated by 6:30 am
- Class will consist of a combination of lecture, video, demonstration, coached group exercises, individual exercises and assessment.
- Students are required to report to class ready to work and maintain the provided PPE

Textbooks/Readings/Materials

- LIUNA IG/PG: *Safety and Health for Mason Tenders, The Mason Tender's Duties, Basic Construction Math, Estimating Masonry Materials, Stocking Masonry Materials, Masonry Saw, Mortar, Admixtures, and Grout.*
- DVDs: LIUNA Mason Tending Duties, Stocking Masonry
- Materials, Mortar Mixing, Operating the Masonry Saw, Safety and Health Issues for Mason Tenders, Mason Tenders Duties, Estimating Masonry Materials, Stocking Masonry Materials, Mortar, Admixtures and Grout, Reinforce Masonry, Masonry Saws
- Industry Exercises
- Handouts: Calculation the Load (Rebar), Reading a Rule, OSHA's Scaffold Rating System, OSHA Silica Standard
- BTD Exit Exam
- BTD Tools & Materials Identification Test
- Engineer's Ruler
- Calculators

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Tools/Equipment/Other Materials

- PPE
- Hand Tools: Tape measure, hammers, levels, pliers, scaffold wrenches
- Scaffold and scaffold components
- Block rebar, mortar, wall ties
- Fork Lift, mortar mixer, shovels, mortar
- Mortar board, buckets, water hose, hoe

Personal Protective Equipment

- 12 pairs of gloves
- 12 pairs of Safety Glasses
- 20 pairs of Ear plugs
- 12 hard hats

Course Requirements

To receive credit for the course, participants must:

- Be present for full forty hours
- Participate in all classroom exercises
- Pass a written exam
- Pass a hands-on exam

Course Policies

- Participants must be on-time and ready to work.
- Participants must return from breaks on-time.
- Participants must participate in each exercise and assignment
- Participants who are on “light duty” are not allowed to take this course due to the physically demanding requirements.

Assessment and Grading

Participants will be assessed on the following:

- All written exams must be passed with a score of 80% or above.
- All hands-on exercises are graded on performance and participation. They are pass/fail and must be passed with a score of 80% or above.

Safety

Failure to maintain and use PPE may result in dismissal from the course.