

Paver Installation Syllabus

Time: 8 hours

Maximum Class Size: 12 (Recommended Class Size: 6-8)

Prerequisites: None

Course Description: This is an introductory course that covers the installation of brick/pavers. Utility Locating Programs (Dig Alert) one call program is introduced. The importance of proper sub-grade and compaction is stressed. Skills introduced include the installation and leveling of sand or screed material, marking, cutting and installing pavers. Students will be given ample hands on time in all the skills introduced as well as the use of the Plate Compactor and Masonry Saw.

Goals/Objectives/Student Learning Outcomes:

- Explain Utility Locating or “Dig Alert” procedures.
- Excavate to the proper depth.
- Grade the base material.
- Slope the base material for drainage purposes (at least ¼” per foot slope).
- Determine appropriate base material, thickness and compaction.
- Use the plate compactor or hand tamper to compact the base material.
- Determine the depth of screeding material (1”-1/2” thick).
- Properly use a screed guide.
- Level screeding material while maintaining drainage slope.
- Lay pavers leaving a 1/8” or 3mm space between each piece.
- Ensure pavers are square.
- Using a masonry saw, mark and cut pavers to fit.
- Install edge restraints to prevent shifting.
- Compact pavers with a plate compactor.
- Sweep sand to finish installation.

Standards

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|---------------------------------------|---------------------------------|
| • OSHA 29 CFR Part 1926.21 | Safety Training & Education |
| • OSHA 29 CFR Part 1926.28 | Personal Protective Equipment |
| • OSHA 29 CFR Part 1926.52 | Occupation Noise Exposure |
| • OSHA 29 CFR Part 1926.300 | Subpart I: Hand and Power Tools |
| • OSHA 29 CFR Part 1926.600 (a)(3)(i) | Subpart O: Mechanized Equipment |

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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: Utility Locating Program IG/PG
- LIUNA: Soil Compaction IG/PG
- LIUNA: Masonry Saw IG/PG
- LIUNA PowerPoints: *Soil Compaction* and *Masonry Saw*
- Handouts: *Cap-brick Paver Installation*, *Sunbelt Brick/Paver Application*, *Brick Pavers Installation Instructions*, *Enhance Companies Do-It-Yourself Brick Paver Installation*, *How to Install Brick Pavers*

Tools/Equipment/Other Materials

- Pavers
- Shovels
- Plate Compactor
- Broom
- Misc. Hand Tools and Equipment
- Masonry Saw
- Screed
- Screeding material
- Screed guide

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:

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- Be present for full eight 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.