

## Laborers Landscape & Irrigation Fitter

### Landscape 4: Chain Saw, Retention Walls, Pavers & Dividers Syllabus

**Time:** 40 hours

**Maximum Class Size:** 12

**Prerequisites:** None

**Course Description:** Participants will learn to operate power tools in this course. Chain Saw, Skil Saw, Hedger and Shredder safety will be stressed. Header Boards will be introduced including redwood 2" x 4". Participants learn about various types of retaining walls such as poured-in-place, block, free standing decorative stone, and the associated permits, codes and irrigation planning. Weed barriers for planter areas are also covered in this course. Ample time is allotted for hands-on practice in order for the student to build competency in building a free-standing decorative stone wall, installing patio pavers, and safely operating a variety of power saws.

#### Goals/Objectives/Student Learning Outcomes:

- Identify four types of chain saws and their purpose.
- Describe five hazards of chain saw operation and how they can be prevented.
- Identify the kickback zone of the chain saw and list four ways to prevent or reduce this from occurring.
- Demonstrate safe startup, inspection, and operation of a chain saw.
- Identify tools needed to sharpen a chain saw.
- Demonstrate how to sharpen a chain saw.
- Demonstrate the proper use of a Skil saw.
- Complete a written exam, with a score of 80% or above, on chain saw, shredder, hedger and Skil saw safety.
- Identify various types of header and divider materials.
- Install free standing stone retainer walls.
- Identify types of weed barriers for planter areas.
- Install and compact patio pavers.

#### Standards

- OSHA 29 CFR Part 1926.21                      Safety Training & Education

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- OSHA 29 CFR Part 1926.28 Personal Protective Equipment
- OSHA 29 CFR Part 1926.52 Occupation Noise Exposure
- OSHA 29 CFR Part 1926.54 Lasers/Non-ionizing Radiation
- OSHA 29 CFR Part 1926.55 Gases, Vapors, Fumes, Dust, Mist
- OSHA 29 CFR Part 1926.147 Isolation Procedures, Lock Out, Tag Out
- OSHA 29 CFR Part 1926.152 Flammable & Combustible Liquids
- OSHA 29 CFR Part 1926.150 Fire Protection
- OSHA 29 CFR Part 1926.151 Fire Prevention
- OSHA 29 CFR Part 1926.266 Logging Operations
- OSHA 29 CFR Part 1926.300 Subpart I: Hand and Power Tools
- OSHA 29 CFR Part 1926.302 Power Operated Hand Tools
- OSHA 29 CFR Part 1926.600 (a)(3)(i) Subpart O: Mechanized Equipment
- OSHA 29 CFR Part 1926.602 Material Handling Equipment

#### 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: Chainsaw Operation, Maintenance & PPE*
- *LIUNA: Chain Saw DVD*
- Handouts: Do it Yourself Retaining Wall Instruction, Retaining Wall & Freestanding Wall Projects, Retaining Wall packet, Retaining Wall photos packet, What is Landscape Fabric?, Myth of the Week 2010, Ground Cover and Weed Control Fabric, Types of Edging, Landscaping Edging Ideas, Lawn & Landscape Edging, Wood Chipper Safety, Hazards of Wood Chippers, Raynaud's Phenomenon, Chain Saw Safety: No Tricks, How to Fell a Tree Using a Chainsaw, Buying a Circular Saw, How to Keep all 10 Fingers, Chain Saw Diagram packet, Chain Saw oil MSDS, Safety Topic, Colorado Retaining Walls

#### Tools/Equipment/Other Materials

- Timber (for Chain Saw practice)
- 2" x 4" pine (for Skil Saw practice)

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- 4" x 4" pine (for Skil Saw practice)
- 4" x 8' x ½" plywood (for Skil Saw practice)
- Decorative retaining wall blocks
- Skid Steer
- Tools and materials for scope of work

#### Personal Protective Equipment

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

#### Course Requirements

In order 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.

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**Safety**

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