PST-1411: Equipment Operations and Safety

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PST-1411: EQUIPMENT OPERATIONS AND SAFETY

Cuyahoga Community College

Viewing: PST-1411: Equipment Operations and Safety

Board of Trustees:

2012-05-24

Academic Term:

Fall 2020

Subject Code

PST - Plant Science/Landscape Tech.

Course Number:

1411

Title:

Equipment Operations and Safety

Catalog Description:

An overview of common horticultural hand tools, power tools, and large equipment. Emphasis on safe operation with hands-on practice and basic preventative maintenance on each machine.

Credit Hour(s):

2

Lecture Hour(s):

1

Lab Hour(s):

3

Requisites

Prerequisite and Corequisite

None.

Outcomes

Course Outcome(s):

Identify common green industry hand tools, power tools, and large equipment.

Objective(s):

- 1. Discuss the limitations of each tool and piece of equipment.
- 2. Summarize the safety tips to keep in mind when operating each tool and piece of equipment

Course Outcome(s):

Choose the most appropriate tool for various tasks encountered on the typical landscape jobsite.

Objective(s):

- 1. Appraise the challenges each jobsite and working condition will present to a crew.
- 2. Assess the most appropriate use of time, equipment, and labor to respond to each challenge.

Course Outcome(s):

Perform safe operation of power equipment.

Objective(s):

- 1. Perform a pre-trip inspection of each piece of equipment including location of fluids, lubrication, and filters.
- 2. Demonstrate preventative maintenance techniques for each piece of equipment.

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- 3. Demonstrate correct start up and shut down procedures for each piece of equipment.
- 4. Operate each piece of equipment safely.

Course Outcome(s):

Discuss the importance of the owner's manual for each tool and piece of equipment.

Objective(s):

- 1. Interpret each section of the owner's manual.
- 2. Discuss the areas of most concern in the manual.
- 3. Select the correct pages needed for a preventative maintenance program on power equipment.

Methods of Evaluation:

- 1. Written assignment
- 2. Written examination
- 3. Case studies
- 4. Individual presentation
- 5. Group demonstrations
- 6. Class participation
- 7. Observance of jobsite safety

Course Content Outline:

- 1. Common green industry hand tools, power tools, and large equipment
 - a. Demonstration and practice to master the limits to which a tool and power equipment can be used
 - b. Review of safe operation principles
 - c. Review of Occupational Safety and Health Administration (OSHA) rules and regulations with each associated tool and equipment
- 2. Assess the appropriateness of a tool for each task encountered on the typical landscape jobsite
 - a. Challenges on the jobsite
 - i. Inclement weather
 - ii. Disruptive employees
 - iii. Damaged equipment
 - iv. Improperly maintained equipment
 - v. Delivery issues
 - vi. Transportation logistics
 - vii. Muddy job sites
 - b. Review most appropriate use of time, equipment, and labor to respond to each challenge
- 3. Practice safe operation of power equipment
 - a. Pre-trip inspections including location of fluids, lubrication, and filters
 - b. Preventative maintenance techniques
 - c. Start up and shut down procedures
- 4. Owner"s manuals
 - a. Review each section of the owner"s manual
 - b. Areas of most concern in the manual including service interval charts
 - c. Setting up a preventative maintenance program on power equipment

Resources

Jay Webster. Repairing Your Outdoor Power Equipment. 1. Clifton Park: Delmar, 2001.

"Equipment World"

"Stihl Owners Manuals"

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"Walker Mowers Owners Manuals (Found on Resources Page of site)"	s Manuals (Found on Resources Page of site)"
"Scag Owners Manuals"	"
"Bobcat Owners Manuals"	als"

Resources Other

None

Instructional Services

OAN Number:

CTAN Approved: Career Technical Assurance Guide CTHOR003

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