

Revised: Spring 2014

HRT 117

Tools and Equipment

Spring 2014

COURSE OUTLINE

Prerequisites:

Prerequisites Here - None

Course Description:

Introduces tools and equipment used in commercial and/or residential horticulture. Emphasizes power-operated equipment including spreaders, sprayers, saws and tractors. Stresses safety, maintenance, minor repair and appropriate tool selection.

The objectives for this course are to:

1. **Develop sound safety practices with hand and power equipment**
2. **Be able to select tools that will be cost compatible and reliable**
3. **Demonstrate skills in selecting proper tool for specific applications**
4. **Demonstrate basic skills in using tools and equipment**

Semester Credits: 2 Lecture Hours: 1 Lab/Recitation Hours: 2

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Course Outcomes

At the completion of this course, the student should be able to:

- 1. Develop sound safety practices with hand and power equipment**
- 2. Be able to select tools that will be cost compatible and reliable**
- 3. Demonstrate skills in selecting proper tool for specific applications**
- 4. Demonstrate basic skills in using tools and equipment**

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Required Materials:

Textbook:

Webster, Jay. *Outdoor Power Equipment*. Albany, NY: Delmar Thomson Learning, 2001. Print. ISBN -13: 978-0-7668-1391-6

A three-ring binder, size one inch or 1 ½” and a pen or pencil. Please bring to each class.

The following supplementary materials are available:

1. STIHL Chain Saw Safety Manual (Manual de seguridad de la motosierra)
2. STIHL Hedge Trimmer Safety Manual (Seguridad en el trabajo con el cortasetos)
3. STIHL Trimmer and Brushcutter Safety Manual
4. STIHL Working safely with cut-off machines (Manual de seguridad de la Cutquik)

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Topical Description: (Assigned readings from chapters of text, course documents and Web links will be posted on Blackboard)

The following list of power and hand tools that are commonly used in horticultural businesses will be reviewed to include proper usage, safety requirements:

| | |
|---------|---|
| Week 1 | Introduction and Overview of Course, Hand Tools |
| Week 2 | Hand and Power Hand Tools |
| Week 3 | Power Hand Tools, Mowers |
| Week 4 | Mowers, Intro Leaf Blowers |
| Week 5 | Leaf Blowers, Vacuums |
| Week 6 | Safety Equipment |
| Week 7 | Fertilizing Spreaders |
| Week 8 | Rototillers |
| Week 9 | Rototillers continued, Trailers |
| Week 10 | Trailers |
| Week 11 | Electric Tools |
| Week 12 | Electric Tools continued |
| Week 13 | Construction Equipment |
| Week 14 | Construction Equipment continued |
| Week 15 | Review |
| Week 16 | Exam |

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