



COURSE OUTLINE: ARB603 - ARBORIST HAND TOOL I

Prepared: John Clement

Approved: Sherri Smith, Chair, Natural Environment, Business, Design and Culinary

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| Course Code: Title | ARB603: UTILITY ARBORIST HAND TOOLS I | |
| Program Number: Name | 6560: UTILITY ARBORIST I | |
| Department: | UTILITY ARBORIST - APPR. | |
| Semesters/Terms: | 19W | |
| Course Description: | This course will provide the student with the skills, tools and knowledge necessary to select adjust, maintain and store tools and equipment commonly used in the utility arboriculture trade. | |
| Total Credits: | 3 | |
| Hours/Week: | 25 | |
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| Prerequisites: | There are no pre-requisites for this course. | |
| Corequisites: | There are no co-requisites for this course. | |
| Essential Employability Skills (EES) addressed in this course: | <p>EES 5 Use a variety of thinking skills to anticipate and solve problems.</p> <p>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.</p> <p>EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</p> <p>EES 10 Manage the use of time and other resources to complete projects.</p> <p>EES 11 Take responsibility for ones own actions, decisions, and consequences.</p> | |
| Course Evaluation: | Passing Grade: 50%, D | |
| Course Outcomes and Learning Objectives: | Course Outcome 1 | Learning Objectives for Course Outcome 1 |
| | Select, inspect, adjust, maintain, set-up and store manual and powered tools and equipment common to arboricultural operations. | Identify, inspect, maintain, set up, and store the following hand tools including chisels, mallets, axes, sledge hammers, shovels, spades, picks, rakes, brooms, ladders, knives, pole pruners, pole saws, compressors, extension cords, maintenance and adjustment tools, drills, augers and bits, brush saws, handsaws, rigging, ropes, friction savers, slings, Woopies, nylon webs, ropes, throw pouch, sling shot, loppers, secateurs, friction devices, connectors, carabiners, clevis, felling levers, wedges, rigging blocks, wire rope, synthetic ropes, tackle blocks, multi-sheave block, rope pullers, chainsaws, gas powered tools. Explain how to select the appropriate tool for various pruning methods, limb diameters and work to be completed. |
| | Course Outcome 2 | Learning Objectives for Course Outcome 2 |
| | Perform daily maintenance on chainsaws according to | Explain how to inspect, clean and maintain the various components of a chainsaw. |



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| | manufacturer's specifications as outlined in the owner's / operator's manual. | Describe how to properly fill a chainsaw with the proper gas mix and bar oil. Sharpen the chain with proper file selection. |
| | Course Outcome 3 | Learning Objectives for Course Outcome 3 |
| | Test chainsaw performance. | Start chainsaw. Adjust throttle and carburetor settings as required. Test chain brake by engaging and disengaging brake. |
| | Course Outcome 4 | Learning Objectives for Course Outcome 4 |
| | Perform daily maintenance on clearing saws according to manufacturer's specifications as outlined in the owner's / operator's manual. | Explain how to inspect, clean and maintain the various components of a clearing saw. Describe how to properly fill a clearing saw with the proper gas mix. Sharpen the cutting head with proper file selection. |

Evaluation Process and Grading System:

| Evaluation Type | Evaluation Weight | Course Outcome Assessed |
|---------------------------|-------------------|-------------------------|
| Attendance | 25% | |
| Demonstration and Quizzes | 75% | |

Date:

June 25, 2018

Please refer to the course outline addendum on the Learning Management System for further information.

