



COURSE OUTLINE: ARB707 - ARBORIST HANDTOOLS 2

Prepared: Steve McClinchey

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

Course Code: Title	ARB707: UTILITY ARBORIST HAND TOOLS II					
Program Number: Name	6561: UTILITY ARBORIST II					
Department:	UTILITY ARBORIST - APPR.					
Semesters/Terms:	21W					
Course Description:	Demonstrate knowledge of how to select, adjust, maintain and store, tools and equipment commonly used in the Utility Arboricultural trade.					
Total Credits:	1					
Hours/Week:	4					
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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 4 Apply a systematic approach to solve problems.</p> <p>EES 5 Use a variety of thinking skills to anticipate and solve problems.</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:	<p>Passing Grade: 50%,</p> <p>A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.</p>					
Course Outcomes and Learning Objectives:	<table border="1"> <thead> <tr> <th>Course Outcome 1</th> <th>Learning Objectives for Course Outcome 1</th> </tr> </thead> <tbody> <tr> <td>Select, inspect, adjust, and maintain, set-up and store manual and powered tools and equipment common to arboricultural operations.</td> <td>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</td> </tr> </tbody> </table>		Course Outcome 1	Learning Objectives for Course Outcome 1	Select, inspect, adjust, and 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
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In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2020-2021 academic year.



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	Course Outcome 2	Learning Objectives for Course Outcome 2
	Perform daily maintenance on chainsaws 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 chainsaw 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 hydraulic pruners and hydraulic 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 hydraulic tools used in trade Sharpen the cutting head with proper file selection

Evaluation Process and Grading System:	Evaluation Type	Evaluation Weight
	Attendance	25%
	Quizzes / Assignments	25%
	Skills Demonstration	50%

Date:	June 17, 2020
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.

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