



## COURSE OUTLINE: ARB711 - AERIAL DEVICES & OTH

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<b>Course Code: Title</b>	ARB711: AERIAL DEVICES AND OTHER EQUIPMENT
<b>Program Number: Name</b>	6561: UTILITY ARBORIST II
<b>Department:</b>	NATURAL RESOURCES PRG
<b>Academic Year:</b>	2023-2024
<b>Course Description:</b>	On the completion of this reportable subject, the apprentice is able to demonstrate the setup, inspection and transportation process of aerial devices according to manufacturer's recommendation and legislative requirements.
<b>Total Credits:</b>	3
<b>Hours/Week:</b>	27
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<b>Prerequisites:</b>	There are no pre-requisites for this course.
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>Vocational Learning Outcomes (VLO's) addressed in this course:</b>	<b>6561 - UTILITY ARBORIST II</b> VLO 2 Utility Arborist - L2
<small>Please refer to program web page for a complete listing of program outcomes where applicable.</small>	
<b>Essential Employability Skills (EES) addressed in this course:</b>	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience. EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication. EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others. EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals. EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences.
<b>Course Evaluation:</b>	Passing Grade: 50%, D  A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.



**Course Outcomes and Learning Objectives:**

<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>
Demonstrate the preparation of an aerial device.	1.1 Preparation as per manufacturer`s instructions 1.2 Pre-operational checks 1.3 Aerial device set up 1.4 Select and use personal protective equipment 1.5 Fall protection systems
<b>Course Outcome 2</b>	<b>Learning Objectives for Course Outcome 2</b>
Demonstrate aerial device and rescue procedures.	2.1 Assess the emergency site and medical condition 2.2 Demonstrate escape from a disabled aerial device 2.3 Demonstrate rescue of a disabled Perform aerial rescue
<b>Course Outcome 3</b>	<b>Learning Objectives for Course Outcome 3</b>
Demonstrate aerial device preventative maintenance.	3.1 Perform maintenance as per manufactures specifications 3.2 Demonstrate required lubrications 3.3 Demonstrate necessary cleaning 3.4 Describe legislative requirements for aerial device
<b>Course Outcome 4</b>	<b>Learning Objectives for Course Outcome 4</b>
Demonstrate the use of an aerial device in utility arboricultural safely.	4.1 Demonstrate loading tools, equipment and materials into bucket 4.2 Demonstrate aerial device operation 4.3 Describe and demonstrate proper aerial device movement with operator 4.4 Demonstrate aerial device transport
<b>Course Outcome 5</b>	<b>Learning Objectives for Course Outcome 5</b>
Demonstrate pruning and removing trees with aerial device in proximity to energized electrical apparatus.	5.1 Inspect, adjust and wear fall protection equipment according to manufacturer`s recommendations 5.2 Demonstrate proper loading of tools and equipment in aerial device 5.3 Demonstrate proper operation to access work location 5.4 Demonstrate hand tools aloft according to predetermined method while working from bucket 5.5 Demonstrate proper use of rigging equipment to control removed materials 5.6 Demonstrate use of gas and hydraulic power tools aloft from bucket 5.7 Demonstrate sectional removal from aerial device using predetermined method 5.8 Control movement of cut limbs and trunk sections from aerial device 5.9 Demonstrate proper loading of tools and equipment in aerial device 5.10 Demonstrate proper operation to access work location 5.11 Demonstrate proper securing of aerial device for travel according to manufacturer`s instructions

**Evaluation Process and Grading System:**

<b>Evaluation Type</b>	<b>Evaluation Weight</b>
Participation	25%

	Quizzes / Assignments	50%
	Scenario Based Test	25%

**Date:** November 6, 2023

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