



COURSE OUTLINE: ARB703 - TREE CLIMBING

Prepared: Steve McClinchey

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

Course Code: Title	ARB703: UTILITY ARBORIST PRACT II-TREE CLIMBING
Program Number: Name	6561: UTILITY ARBORIST II
Department:	UTILITY ARBORIST - APPR.
Academic Year:	2023-2024
Course Description:	Demonstrate a knowledge of how to plan work safely, utilizing safe work practices, pruning and removing trees in proximity of electrical conductors, ascending, descending and performing aerial rescue, inspect, adjust and maintain personal protective equipment and fall protection equipment utilized in the Utility Arboricultural trade and managing fire, waste and dangerous goods.
Total Credits:	12
Hours/Week:	29
Total Hours:	144
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Vocational Learning Outcomes (VLO's) addressed in this course:	6561 - UTILITY ARBORIST II VLO 2 Utility Arborist - L2
Please refer to program web page for a complete listing of program outcomes where applicable.	
Essential Employability Skills (EES) addressed in this course:	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 3 Execute mathematical operations accurately. 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.
Course Evaluation:	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:

Course Outcome 1	Learning Objectives for Course Outcome 1
Demonstrate compliance with provincial acts, regulations and municipal bylaws through job planning and work execution.	1.1 Interpret job documents 1.2 Perform Tailboard Safety Discussion 1.3 Inspect, adjust, and wear personal protective equipment 1.4 Determine job site limits 1.5 Identify job sequences, hazards and barriers to hazards 1.6 Interpret job documents 1.7 Write effective memos 1.8 Read owner's manuals, work orders, operator manuals. 1.9 Listen effectively
Course Outcome 2	Learning Objectives for Course Outcome 2
Demonstrate safe work practices when working in proximity to energized electrical apparatus.	2.1 Environmental hazards identified 2.2 Tree hazards controlled 2.3 Ground hazards identified 2.4 Underground hardware identified 2.5 Poisonous plants identified 2.6 Application of Electrical Utility Safety Rule Book 2.7 Establish clear communications between workers and equipment 2.8 Tree Hazards
Course Outcome 3	Learning Objectives for Course Outcome 3
Demonstrate inspecting, adjusting, maintaining and wearing required personal protective equipment. Review unit 1.3.3	3.1 Eye protection, head protection, face protection, hearing protection 3.2 Hand protection, foot protection, leg protection 3.3 Rubber gloves 3.4 Flame resistant clothing
Course Outcome 4	Learning Objectives for Course Outcome 4
Demonstrate pruning woody plants in proximity to energized electrical apparatus.	4.1 Consider required pruning operations 4.2 Identify pruning cut location on tree 4.3 Pruning cuts 4.4 Pruning methods 4.5 Raise and lower limbs using ropes without mechanical advantage 4.6 Chainsaw use aloft
Course Outcome 5	Learning Objectives for Course Outcome 5
Demonstrate removing woody plants in proximity to energized electrical apparatus. Review Unit 1.3.5	5.1 Identifying trees to be removed 5.2 Determine removal method 5.3 Factors affecting removal method 5.4 Felling zone preparation 5.5 Danger zone preparation 5.6 Felling trees in proximity to energized apparatus 5.7 Sectional removals 5.8 Removal of trees that have fallen during storm conditions 5.9 Inspect worksite
Course Outcome 6	Learning Objectives for Course Outcome 6
Demonstrate selecting,	



	inspecting, adjusting, and maintaining fall protection system components. Review Unit 1.3.3	6.1 Fall protection 6.2 Full body harness
	Course Outcome 7	Learning Objectives for Course Outcome 7
	Demonstrate the selection, use of, and inspection of hand tools and tree maintenance equipment according to manufacturer's recommendations. Review Unit 2.3.4	7.1 Mechanical tools and equipment
	Course Outcome 8	Learning Objectives for Course Outcome 8
	Demonstrate various methods of safely ascending and descending trees when accessing required work positions. Review Unit 2.3.8	8.1 Demonstrate various ascending techniques 8.2 Describe pre-climbing tree inspection 8.3 Demonstrate various descending techniques 8.4 Demonstrate how to set up interim and final anchor points
	Course Outcome 9	Learning Objectives for Course Outcome 9
	Demonstrate aerial tree rescues using appropriate methods.	9.1 Assess the emergency site and medical condition 9.2 Determine appropriate aerial rescue technique 9.3 Perform aerial rescue
Course Outcome 10	Learning Objectives for Course Outcome 10	
Demonstrate controlling underbrush in proximity to transmission and distribution voltage conductors.	10.1 Prepare underbrush felling area 10.2 Fell underbrush using predetermined methods 10.3 Site clean-up 10.4 Determining and using clearing saw 10.5 Perform pre-operational inspection/maintenance 10.6 Perform operations	

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Attendance	25%
Quizzes / Assignments	50%
Skills Demonstration	25%

Date: November 9, 2023

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