



COURSE OUTLINE

ARB703

1

Prepared: Steve McClinchey Approved: Sherri Smith

Course Code: Title	ARB703: UTILITY ARBORIST PRACT II-TREE CLIMBING								
Program Number: Name	6561: UTILITY ARBORIST II								
Department:	UTILITY ARBORIST - APPR.								
Semester/Term:	18W								
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:	24								
Total Hours:	121								
Essential Employability Skills (EES):	<p>#1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <p>#3. Execute mathematical operations accurately.</p> <p>#4. Apply a systematic approach to solve problems.</p> <p>#5. Use a variety of thinking skills to anticipate and solve problems.</p> <p>#8. Show respect for the diverse opinions, values, belief systems, and contributions of others.</p> <p>#9. Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</p> <p>#10. Manage the use of time and other resources to complete projects.</p> <p>#11. Take responsibility for ones own actions, decisions, and consequences.</p>								
Course Evaluation:	Passing Grade: 50%,								
Evaluation Process and Grading System:	<table><tr><th>Evaluation Type</th><th>Evaluation Weight</th></tr><tr><td>Attendance</td><td>25%</td></tr><tr><td>Quizzes / Assignments</td><td>50%</td></tr><tr><td>Skills Demonstration</td><td>25%</td></tr></table>	Evaluation Type	Evaluation Weight	Attendance	25%	Quizzes / Assignments	50%	Skills Demonstration	25%
Evaluation Type	Evaluation Weight								
Attendance	25%								
Quizzes / Assignments	50%								
Skills Demonstration	25%								
Course Outcomes and	Course Outcome 1.								



COURSE OUTLINE

ARB703

2

Prepared: Steve McClinchey Approved: Sherri Smith

Learning Objectives:

Demonstrate compliance with provincial acts, regulations and municipal bylaws through job planning and work execution.

Learning Objectives 1.

- Interpret job documents
- Perform Tailboard Safety Discussion
- Inspect, adjust, and wear personal protective equipment
- Determine job site limits
- Identify job sequences, hazards and barriers to hazards
- Interpret job documents
- Write effective memos
- Read owner's manuals, work orders, operator manuals.
- Listen effectively

Course Outcome 2.

Demonstrate safe work practices when working in proximity to energized electrical apparatus.

Learning Objectives 2.

- Environmental hazards identified
- Tree hazards controlled
- Ground hazards identified
- Underground hardware identified
- Poisonous plants identified
- Application of Electrical Utility Safety Rule Book
- Establish clear communications between workers and equipment
- Tree Hazards

Course Outcome 3.

Demonstrate inspecting, adjusting, maintaining and wearing required personal protective equipment.



COURSE OUTLINE

ARB703

3

Prepared: Steve McClinchey Approved: Sherri Smith

Review unit 1.3.3

Learning Objectives 3.

- Eye protection, head protection, face protection, hearing protection
- Hand protection, foot protection, leg protection
- Rubber gloves
- Flame resistant clothing

Course Outcome 4.

Demonstrate pruning woody plants in proximity to energized electrical apparatus.

Learning Objectives 4.

- Consider required pruning operations
- Identify pruning cut location on tree
- Pruning cuts
- Pruning methods
- Raise and lower limbs using ropes without mechanical advantage
- Chainsaw use aloft

Course Outcome 5.

Demonstrate removing woody plants in proximity to energized electrical apparatus.

Review Unit 1.3.5

Learning Objectives 5.

- Identifying trees to be removed
- Determine removal method
- Factors affecting removal method
- Felling zone preparation
- Danger zone preparation
- Felling trees in proximity to energized apparatus
- Sectional removals



COURSE OUTLINE

ARB703

4

Prepared: Steve McClinchey Approved: Sherri Smith

- Removal of trees that have fallen during storm conditions
- Inspect worksite

Course Outcome 6.

Demonstrate selecting, inspecting, adjusting, and maintaining fall protection system components.
Review Unit 1.3.3

Learning Objectives 6.

- Fall protection
- Full body harness

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

Learning Objectives 7.

- Mechanical tools and equipment

Course Outcome 8.

Demonstrate various methods of safely ascending and descending trees when accessing required work positions.
Review Unit 2.3.8

Learning Objectives 8.

- Demonstrate various ascending techniques
- Describe pre-climbing tree inspection
- Demonstrate various descending techniques



COURSE OUTLINE

ARB703

5

Prepared: Steve McClinchey Approved: Sherri Smith

- Demonstrate how to set up interim and final anchor points

Course Outcome 9.

Demonstrate aerial tree rescues using appropriate methods.

Learning Objectives 9.

- Assess the emergency site and medical condition
- Determine appropriate aerial rescue technique
- Perform aerial rescue

Course Outcome 10.

Demonstrate controlling underbrush in proximity to transmission and distribution voltage conductors.

Learning Objectives 10.

- Prepare underbrush felling area
- Fell underbrush using predetermined methods
- Site clean-up
- Determining and using clearing saw
- Perform pre-operational inspection/maintenance
- Perform operations

Date:

Thursday, August 31, 2017

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