

Course Objectives/Course Outline
Spokane Community College

Course Title: Arboriculture Tools and Equipment

Prefix and Course Number: AGHRT 236

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Identify and understand tools common to Arboriculture
- Understand how Arborists and Urban Foresters select various tools for performing services based on variables including: worker safety, tree condition, available equipment, site access/ obstacles and productivity
- Gain familiarity with what a common arboricultural work site may entail and how and which tools are used in what sequence to perform tree care operations

Course Outline:

- I. Worker and Worksite Safety
 - A. Worker Safety
 - B. Personal Protective Equipment
 - C. Traffic Safety
 - D. Public Safety
- II. Tools and Equipment
 - A. Trucks and Trailers
 - i. Setup and Operation
 - ii. Lift gates– securing loads
 - B. Tree Measurement and Assessment
 - i. Diameter tape
 - ii. Clinometer/ hypsometer
 - iii. Airspade
 - iv. Hydro-evacuation
 - C. Pruning
 - i. Handtools
 - ii. Chainsaws
 - iii. Powered Pruning Tools
 - D. Climbing
 - i. Ladder
 - ii. Rope
 - iii. Mechanical friction hitches
 - iv. Harness
 - E. Rigging
 - F. Aerial Lifts and Cranes
 - G. Tree Support Systems
 - H. Tree Removal
 - i. Winches
 - ii. Wood Chippers
 - iii. Log Dolly
 - iv. Log Peavy and Fetching Arches
 - v. Skidsteer
 - I. Stump Grinding
 - J. Pesticide and Fertilizer Application
 - i. Spraying

Print Date: 2/16/17

- ii. Soil Injection
 - iii. Trunk Injection
 - iv. Granular Application
- K. Planting and Transplanting
- i. Hand tools
 - ii. Tree spade