



BC Forest Safety

Stand Tending Package

Table of Contents

Version Control	3
Industry Toolbox	4
Occupation Descriptions	5
The following occupation(s) are part of this package:	5
Stand Tender	5
Occupational Analysis Chart	6
Units/Modules	7
Standards/Guidelines	8
Administrator Contact Information	55
BC Forest Safety Council	55



Version Control

Version includes date and control number. Comment section lists a summary of changes from previous version.

Version		Comments
2024-08-06	v. 1.0	Final draft

In consultation with industry subject matter experts, the BC Forest Safety Council (BCFSC) facilitated the production of this material.

Printed copies are considered uncontrolled and may be outdated. Current versions are available from the BCFSC.

Feedback is welcome and may be sent to training@bcforestsafe.org.



Industry Toolbox

A package is the foundation document for an occupation or group of related occupations. The package provides the framework for the occupation(s) and includes:

- Occupational Analysis Chart and descriptions
- Units of Competency which specify in terms of outcomes what is required to work effectively to a standard required by industry and regulations where applicable.

The purpose of the above documentation and process is to provide industry with a 'toolbox' that will support training and assessment of workers in the relevant occupations.



Occupation Descriptions

The following occupation(s) are part of this package:

- Stand Tender

Stand Tender

Stand tending workers may conduct a variety of forest treatments, including pre-commercial thinning, fertilizing, pruning and commercial thinning, carried out to maintain a healthy forest and to increase the quality and quantity of timber produced.

Standing tending workers use hand tools, mechanical tools or power tools including brush saws and power saws. The work environment varies depending on treatment type, size and distribution of species, terrain, and region. Work is generally done on older cut blocks or wildfire fuel reduction areas. Workers must be able to evaluate and control the hazards in the work environment. Workers must be able to understand and apply contract standards. Work locations are often isolated with varied weather conditions. Generally, workers supply their own clothing and equipment and work for an employer most often as piece workers.

Workers may commute long distances or stay in remote camps. Workers will often work in small to large crew sizes and under indirect supervision.



Occupational Analysis Chart

R = Required | O = Optional

OCCUPATIONAL SKILLS A	Describe Personal and Worksite Safety 1003	Communicate in the Workplace 1004	Recognize, Evaluate, and Control Hazards related to General Forestry 1005	Describe Workplace Documentation 1006	Describe Emergency Preparedness 1007	Describe and Apply Workplace Attributes 1008
	R	R	R	R	R	

STAND TENDING B	Describe and Operate Brush Saw 1010	Describe Standing Tending 1011	Conduct Stand Tending Treatment 1012
	R	R	R

Optional Workplace Units of Competency

OPTIONAL C	Describe and Operate Chainsaw 1028
	O



Units/Modules

The following are part of the formative assessment for occupational skills.

Unit	Title
Formative Occupational Skills	
1003	Describe Personal and Worksite Safety
1004	Communicate in the Workplace
1005	Recognize Hazards Related to General Forestry
1006	Describe Workplace Documentation
1007	Describe Emergency Preparedness
1008	Describe and Apply Workplace Attributes
1010	Describe and Operate Brush saw
Stand Tending Units	
1011	Describe Stand Tending
1012	Conduct Stand Tending Activities
Optional Unit	
1028	Describe and Operate Chainsaw



Standards/Guidelines

	General units related to Forestry
	Units specific to the package
	Units that are optional depending on workplace requirements

Units of Competency define, in terms of outcomes, the skills, knowledge and attributes required to perform effectively in the workplace. They inform the development of any assessment or evidence requirement and the learning resources.



Unit	1003
Title	Describe Personal and Worksite Safety
Document	Unit of Competency

Description	<p>This is knowledge unit about:</p> <ul style="list-style-type: none"> • Personal Safety; and • Worksite Safety.
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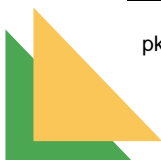
Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<p>This unit has the following prerequisites for fallers:</p> <ul style="list-style-type: none"> • 1002 – Describe Forest Industry; or • 1033 – Describe Wildfire Preparedness; or • 1034 – Describe Oil and Gas Industry.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Bucker – Forest Industry, Wildfire Service, Oil and Gas Industry • Faller – Forest Industry, Wildfire Service, Oil and Gas Industry • All Forestry occupations as required
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Element	Competence Outcomes
1. Personal Safety	<p>1.1. Explain the use of, maintenance, and when Personal Protective Equipment (PPE) must be removed from service in accordance with safe work procedures and relevant regulations.</p> <p>Use of must include:</p> <ul style="list-style-type: none"> • Dress appropriate to the weather and work activity • Hard hat, eye and face protection, hearing protection, hand protection, leg protection, safety footwear, hi-vis apparel. <p>1.2. Explain the importance of walking in the bush safely throughout the workday.</p> <p>1.3. Explain OHSR regulation related to working alone or in isolation.</p> <p>1.4. Explain the right to refuse unsafe work in accordance with OHSR.</p> <p>Right to refuse unsafe work must include:</p> <ul style="list-style-type: none"> • What is unsafe, obligation to refuse, WSBC resolution process
2. Worksite Safety	<p>2.1. Describe shutdown criteria for weather in accordance with site conditions and environmental standards.</p> <p>Shutdown criteria for weather may include:</p> <ul style="list-style-type: none"> • Heat, cold, rain, fog, smoke, wind, lightning, frost, ice, snow, avalanches. • Break-up. <p>2.2. Describe how to control access to working area in accordance with regulation.</p> <p>2.3. Recognize safe zones and hazard zones in accordance with company policy and legislation.</p> <p>Hazard zones must include:</p> <ul style="list-style-type: none"> • Low side of equipment, well sites and pipelines, low side of worker, two-tree lengths radius from other workers and equipment, low side of log decks, uphill of active wildfire, low side of roadside debris, standing within swing radius of equipment, runaway zones, highway/public roads, blast radius, overhead hazards (lines, rigging, trees).



Element	Competence Outcomes
	<p>2.4. Identify common contributors, and common types of MSI in the forest industry.</p> <p>Common types of MSI must include:</p> <ul style="list-style-type: none"> • Repetitive strain injury, tendinitis, hearing loss, tenosynovitis, Raynaud’s syndrome. <p>Common contributors of MSI must include:</p> <ul style="list-style-type: none"> • Lifting, reaching, repetitive motions, cutting with the chainsaw, walking on logs and uneven terrain, vibration.

Summary of Knowledge and Skills

<p>Summary of Knowledge to be Assessed</p>	<p>For this unit, a competent worker must understand:</p> <ul style="list-style-type: none"> • PPE required for the job including use, maintenance, storage, and removal • What PPE is required for the work activity • How to walk in the bush safely • Regulation related to working alone or in isolation • Regulation and process related to refusal of unsafe work • Weather related shutdown criteria • Control access to the work area • Safe zones and hazard zones • Definition of MSI • Common types of MSI in the forest industry.
<p>Summary of Skills to be Assessed</p>	<p>For this unit a competent worker must be able to:</p> <ul style="list-style-type: none"> • This is a knowledge only unit.



General Forestry Assessment Guide

<p>General Information</p>	<p>Competence outcomes requiring “knowledge of” can be assessed through competency conversations or written assessment. Evidence should be on record showing the outcomes have been met.</p> <ul style="list-style-type: none"> • Training modules are available for this unit. • A competency conversation is available for this unit. • This unit is required for Certificate of Qualification - Faller.
<p>Evidence to be Assessed</p>	<p>Minimum evidence requirements to achieve this unit must include:</p> <ul style="list-style-type: none"> • Completion of training module and formative assessments. • Completion of competency conversation where applicable.
<p>Evidence Sign Off</p>	<p>Evidence must be signed off by designated:</p> <ul style="list-style-type: none"> • Trainer • Assessor • Supervisor. <p>Final evidence sign off for Certificates of Qualification is the responsibility of the Quality Assurance – Internal and External Verifiers, a function of the relevant administrator.</p>



Unit	1004
Title	Communicate in the Workplace
Document	Unit of Competency

Description	<p>This is a knowledge unit about:</p> <ul style="list-style-type: none"> • Communication; and • Resource Road Signage.
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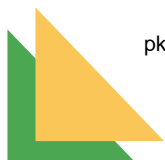
Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<p>This unit has the following prerequisites for fallers:</p> <ul style="list-style-type: none"> • 1002 – Describe Forest Industry; or • 1033 – Describe Wildfire Preparedness; or • 1034 – Describe Oil and Gas Industry.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Bucker – Forest Industry, Wildfire Service, Oil and Gas Industry • Faller – Forest Industry, Wildfire Service, Oil and Gas Industry • All forestry occupations where applicable.
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Element	Competence Outcomes
1. Communicate	<p>1.1. Describe resource road communication in accordance with relevant road use procedures.</p> <p>Resource road communication must include:</p> <ul style="list-style-type: none"> • Radio frequency/channel, call procedure, road name/contact information. <p>1.2. Describe hazard communication in accordance with relevant site-specific policy and procedures.</p> <p>1.3. Describe emergency communication.</p> <p>1.4. Describe communication failure in the workplace related to operations and the means to control the hazard.</p>
2. Signage	<p>2.1. Recognize road signs in accordance with company policy and the Ministry of Forest, Lands Natural Resources Operations and Rural Development (MFLNRORD).</p> <p>Road signs may include but not limited to:</p> <ul style="list-style-type: none"> • Road name, kilometer signs, radio channels, radio call points, must call signs. <p>2.2. Recognize active area signs in accordance with company policy and MFLNRO.</p> <p>Active area signs may include:</p> <ul style="list-style-type: none"> • Hazard zones, do not enter, blasting signs, active falling area, helicopter landing areas, machinery working, call for clearance, explosive storage, environmental signs, prime contractor signs, men working, seismic crew, seismic crew ahead active falling area, and active wildfire area.



Summary of Knowledge and Skills

Summary of Knowledge to be Assessed	<p>For this unit, a competent worker must understand:</p> <ul style="list-style-type: none"> • Resource road communication • Hazard communication • Emergency communication • Communication failure • Resource road signs and active area signs.
Summary of Skills to be Assessed	<p>For this unit a competent worker must be able to:</p> <ul style="list-style-type: none"> • This is a knowledge only unit.

General Forestry Assessment Guide

General Information	<p>Competence outcomes requiring “knowledge of” can be assessed through competency conversations or written assessment. Evidence should be on record showing the outcomes have been met.</p> <ul style="list-style-type: none"> • Training modules are available for this unit. • A competency conversation is available for this unit. • This unit is required for Certificate of Qualification – Faller.
Evidence to be Assessed	<p>Minimum evidence requirements to achieve this unit must include:</p> <ul style="list-style-type: none"> • Completion of training module and formative assessments. • Completion of competency conversation where applicable.
Evidence Sign Off	<p>Evidence must be signed off by designated:</p> <ul style="list-style-type: none"> • Trainer • Assessor • Supervisor. <p>Final evidence sign-off for Certificates of Qualification is the responsibility of the Quality Assurance – Internal and External Verifiers, a function of the relevant administrator.</p>



Unit	1005
Title	Recognize Hazards Related to General Forestry
Document	Unit of Competency

Description	<p>This is a knowledge unit about:</p> <ul style="list-style-type: none"> • Health Hazards; • Operational Hazards; and • Environmental Hazards.
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Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<p>This unit has the following prerequisites for fallers:</p> <ul style="list-style-type: none"> • 1002 – Describe Forest Industry; or • 1033 – Describe Wildfire Preparedness; or • 1034 – Describe Oil and Gas Industry.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Bucker – Forest Industry, Wildfire Service, Oil and Gas Industry • Faller – Forest Industry, Wildfire Service, Oil and Gas Industry • All Forestry occupations where applicable.
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Element	Competence Outcomes
1. Recognize, Evaluate and Control Hazards	1.1. Describe the recognize, evaluate and control process.
2. Health Hazards	2.1. Describe and recognize toxins in the workplace and its effect on the worker and the means to control the hazard. Toxins in the workplace may include: <ul style="list-style-type: none"> • Pesticides, herbicides, asbestos, silica, exhaust emissions, misting, nitro glycerin, oil and gas.
3. Operational Hazards	3.1. Describe and recognize potential hazards from machines and surroundings and the means to control the hazard. Potential Hazards may include: <ul style="list-style-type: none"> • Overloading, damage to machine, injury from machine maintenance, noise from machine and vehicles, overhead hazards, danger trees.
4. Environmental Hazards	4.1. Describe hazards related to steep terrain and terrain stability. 4.2. Recognize adverse condition hazards in the workplace related to operations and the means to control the hazard. Adverse condition hazards may include: <ul style="list-style-type: none"> • After a fire, lightning blowdown, wind, earthquake, danger trees, snow, rain, fog/smoke, heat, cold, dust, exposure to sun. 4.3. Recognize wildlife and insect hazards in the workplace. Wildlife and insect hazards may include: <ul style="list-style-type: none"> • Bees, ticks (Lyme disease), bears, cougars, wolves, moose.



Summary of Knowledge and Skills

<p>Summary of Knowledge to be Assessed</p>	<p>For this unit, a competent worker must understand:</p> <ul style="list-style-type: none"> • Recognize, evaluate and control process • General health hazards • General operation hazards • Hazards related to steep terrain and terrain stability • Adverse conditions hazards • Wildlife and insect hazards
<p>Summary of Skills to be Assessed</p>	<p>For this unit a competent worker must be able to:</p> <ul style="list-style-type: none"> • This is a knowledge only unit.

General Forestry Assessment Guide

<p>General Information</p>	<p>Competence outcomes requiring “knowledge of” can be assessed through competency conversations or written assessment. Evidence should be on record showing the outcomes have been met.</p> <ul style="list-style-type: none"> • Training modules are available for this unit. • This unit is required for Certificate of Qualification - Faller
<p>Evidence to be Assessed</p>	<p>Minimum evidence requirements to achieve this unit must include:</p> <ul style="list-style-type: none"> • Completion of training module and formative assessments.
<p>Evidence Sign Off</p>	<p>Evidence must be signed off by designated:</p> <ul style="list-style-type: none"> • Trainer • Assessor • Supervisor <p>Final evidence sign off for Certificates of Qualification is the responsibility of the Quality Assurance – Internal and External Verifiers, a function of the relevant administrator.</p>



Unit	1006
Title	Describe Workplace Documentation
Document	Unit of Competency

Description	<p>This is a knowledge unit about:</p> <ul style="list-style-type: none"> • General Forestry Documentation.
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Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<p>This unit has the following prerequisites for fallers:</p> <ul style="list-style-type: none"> • 1002 – Describe Forest Industry; or • 1033 – Describe Wildfire Preparedness; or • 1034 – Describe Oil and Gas Industry.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Bucker – Forest Industry, Wildfire Service, Oil and Gas Industry • Faller – Forest Industry, Wildfire Service, Oil and Gas Industry • All Forestry occupations where applicable.
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Element of Competence	Competence Outcomes
<p>1. General Forestry Documentation</p>	<p>1.1. Describe safe work procedures and job safety breakdown documentation and how to access them in accordance with workplace policy and procedure.</p> <p>Safe work procedures and job safety breakdown documentation must include:</p> <ul style="list-style-type: none"> • Where they are located and how to access them, how often to be reviewed. <p>1.2. Identify documentation required before starting work in accordance with workplace policy and procedure.</p> <p>Documentation required before starting work may include:</p> <ul style="list-style-type: none"> • Site hazard assessment, initial safety meeting for new worksite, first aid risk assessment, emergency response procedures, working alone assessment and man check records, carbon monoxide reporting. <p>1.3. Confirm map.</p> <p>Map must include:</p> <ul style="list-style-type: none"> • Legend including direction, hazards, symbols, orientation skills, environmental constraints, scales. <p>1.4. Explain why operator manuals must be readily available.</p> <p>Operator manuals may include:</p> <ul style="list-style-type: none"> • Mobile equipment, chainsaws, vehicles, tools.



Summary of Knowledge and Skills

Summary of Knowledge to be Assessed	<p>For this unit, a competent worker must understand:</p> <ul style="list-style-type: none"> • Safe work procedures • Job Safety Breakdown documentation • How to read maps • Operator manuals
Summary of Skills to be Assessed	<p>For this unit a competent worker must be able to:</p> <ul style="list-style-type: none"> • This is a knowledge only unit.

General Forestry Assessment Guide

General Information	<p>Competence outcomes requiring “knowledge of” can be assessed through competency conversations or written assessment. Evidence must be on record of competence achieved.</p> <ul style="list-style-type: none"> • Training modules are available for this unit. • A competency conversation is available for this unit. • This unit is required for Certificate of Qualification - Faller
Evidence to be Assessed	<p>Minimum evidence requirements to achieve this unit must include:</p> <ul style="list-style-type: none"> • Completion of training module and formative assessments. • Completion of competency conversation where applicable.
Evidence Sign Off	<p>Evidence must be signed off by designated:</p> <ul style="list-style-type: none"> • Trainer • Assessor • Supervisor. <p>Final evidence sign off for Certificates of Qualification is the responsibility of the Quality Assurance – Internal and External Verifiers, a function of the relevant administrator.</p>



Unit	1007
Title	Describe Emergency Preparedness
Document	Unit of Competency

Description	<p>This is a knowledge unit about:</p> <ul style="list-style-type: none"> • Emergencies; and • First Aid.
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Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<p>This unit has the following prerequisites for fallers:</p> <ul style="list-style-type: none"> • 1002 – Describe Forest Industry; or • 1033 – Describe Wildfire Preparedness; or • 1034 – Describe Oil and Gas Industry.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Bucker – Forest Industry, Wildfire Service, Oil and Gas Industry • Faller – Forest Industry, Wildfire Service, Oil and Gas Industry • All Forestry occupations where applicable.
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Element	Competence Outcomes
1. Emergencies	<p>1.1. Describe roles and responsibilities that may occur within the ERP including triggers.</p> <p>Triggers may include:</p> <ul style="list-style-type: none"> • Environmental emergencies, wildfire emergencies, avalanche, excessive rain, flooding, medical, landslide, excessive snowfall, windstorm, gas release, water rescue, helicopter down, vessel sinking or lost. <p>1.2. Explain incidents that must be reported immediately in accordance with WCA.</p> <p>Incidents that must be reported immediately must include:</p> <ul style="list-style-type: none"> • Fatality/Serious injury, a serious blasting incident, major structural failure or collapse, major release of hazardous substance, dangerous incident involving a fire or explosion. <p>1.3. Identify the components of an ERP and where to find and identify on site location of medical/environmental/fire emergency response plans in accordance with company policy and procedure.</p> <p>Medical/environmental/fire emergency response plans must include:</p> <ul style="list-style-type: none"> • Contact numbers or radio channel/frequency, First Aid designates, helicopter landing area coordinates, muster points, communication protocols for emergencies, outside resources for emergencies, location of emergency response equipment, worksite coordinates, access/egress routes, methods and routes to medical aid.
2. First Aid	<p>2.1. Explain First Aid procedures.</p> <p>First Aid procedures must include:</p> <ul style="list-style-type: none"> • Personnel, how to call First Aid, First Aid attendant authority, transportation of injured worker. • What and where First Aid supplies must be on site. <p>2.2. Identify specialized First Aid equipment.</p> <p>Specialized First Aid equipment may include:</p> <ul style="list-style-type: none"> • Spine board, hard and soft neck collars, splints,



Element	Competence Outcomes
	<p>oxygen, EPI pen, AED, baby aspirin, naloxone.</p> <p>2.3. Identify what First Aid requirements are needed at the workplace in accordance with workplace policy, procedure, and regulations.</p> <p>First Aid requirements must include:</p> <ul style="list-style-type: none"> • Where to find number of First Aid attendants and levels required. • When and where approved Emergency Transport Vehicle (ETV) or Mobile Transport Center (MTC) is required.

Summary of Knowledge and Skills

Summary of Knowledge to be Assessed	<p>For this unit, a competent worker must understand:</p> <ul style="list-style-type: none"> • Roles and responsibilities related to the ERP in different emergencies scenarios • Incident reporting and timelines. • Components of an ERP • Location of ERP • First Aid procedures • First Aid requirements on worksite • Specialized First Aid equipment.
Summary of Skills to be Assessed	<p>For this unit a competent worker must be able to:</p> <ul style="list-style-type: none"> • This is a knowledge only unit.



General Forestry Assessment Guide

<p>General Information</p>	<p>Competence outcomes requiring “knowledge of” can be assessed through competency conversations or written assessment. Evidence should be on record showing the outcomes have been met.</p> <ul style="list-style-type: none"> • Training modules are available for this unit. • A competency conversation is available for this unit. • This unit is required for Certificate of Qualification – Faller.
<p>Evidence to be Assessed</p>	<p>Minimum evidence requirements to achieve this unit must include:</p> <ul style="list-style-type: none"> • Completion of training module and formative assessments. • Completion of competency conversation where applicable.
<p>Evidence Sign Off</p>	<p>Evidence must be signed off by designated:</p> <ul style="list-style-type: none"> • Trainer • Assessor • Supervisor. <p>Final evidence sign off for Certificates of Qualification is the responsibility of the Quality Assurance – Internal and External Verifiers, a function of the relevant administrator.</p>



Unit	1008
Title	Describe and Apply Workplace Attributes
Document	Unit of Competency

Description	<p>This is a knowledge and ability unit about:</p> <ul style="list-style-type: none"> • Professionalism; • Safe Productivity; and • Physical and Mental Well-Being.
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Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<p>This unit has the following prerequisites for fallers:</p> <ul style="list-style-type: none"> • 1002 – Describe Forest Industry; or • 1033 – Describe Wildfire Preparedness; or • 1034 – Describe Oil and Gas Industry.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Bucker – Forest Industry, Wildfire Service, Oil and Gas Industry • Faller – Forest Industry, Wildfire Service, Oil and Gas Industry • All Forestry occupations where applicable.
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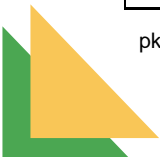
Element	Competence Outcomes
1. Professionalism	<p>1.1. Describe why it is important to be prepared and demonstrate ability to arrive at work prepared for the task and the day.</p> <p>Work prepared for the task and the day may include:</p> <ul style="list-style-type: none"> • Task specific PPE, additional nutrition and hydration, change of clothes, task specific equipment, and site or work specific paperwork. <p>Be prepared may include:</p> <ul style="list-style-type: none"> • Minimize operational delays, for safety, avoid being rushed, attend safety meetings, ensure tools and equipment are in working order, pre-trips. <p>1.2. Describe how to effectively deal with problems.</p> <p>Problems may include:</p> <ul style="list-style-type: none"> • Personal and interpersonal problems, problems as a result of changing work conditions. <p>1.3. Give and receive constructive feedback.</p> <p>1.4. Explain why it is important to have a good work ethic.</p> <p>Good work ethic may include:</p> <ul style="list-style-type: none"> • Self-respect/pride, respect for others/others respect for you, meet workplace expectations, deliver good product, minimize down time.
2. Safe Productivity	<p>2.1. Demonstrate ability to work in an organized manner within specific worksite requirements.</p> <p>Organized manner may include:</p> <ul style="list-style-type: none"> • Teamwork, predictability, work progressively. <p>2.2. Demonstrate ability to achieve outcomes while maintaining safe work practices.</p>
3. Physical and Mental Well-Being	<p>3.1. Explain why and demonstrate ability to be fit for work.</p> <p>Fit for work must include:</p> <ul style="list-style-type: none"> • Self-awareness, recognition of personal limitations, impairment, drugs, alcohol, nutrition, eating right. <p>3.2. Describe physical conditions that can affect ability to perform job and how to mitigate them.</p>



Element	Competence Outcomes
	<p>Physical conditions may include:</p> <ul style="list-style-type: none"> • Dehydration, frostbite, hypothermia, heat stress, fatigue/exhaustion, injuries. <p>3.3. Describe mental conditions that can affect ability to perform job and how to mitigate them.</p> <p>Mental conditions may include:</p> <ul style="list-style-type: none"> • Mental fatigue, personal problems/emotions, over/lack confidence, sleep deprivation, anger, lack of trust, depression, money stress, family stress, interpersonal behavior, bullying, aggression, target or production fixation, peer pressure, unsafe behavior of others.

Summary of Knowledge and Skills

<p>Summary of Knowledge to be Assessed</p>	<p>For this unit, a competent worker must understand:</p> <ul style="list-style-type: none"> • The importance of arriving at work prepared and on time • How to effectively deal with problems • Why constructive criticism is important • Importance of good work ethic • How to work in an organized manner • Importance of achieving outcomes • Physical conditions that affect work • Mental conditions that affect work.
<p>Summary of Skills to be Assessed</p>	<p>For this unit a competent worker must be able to:</p> <ul style="list-style-type: none"> • Be fit for work • Manage time and productivity including: <ul style="list-style-type: none"> ○ Planning, scheduling and prioritizing of time ○ Working under self-motivation or limited supervision ○ Having a positive hard-working ethic. • Achieve outcomes.



General Forestry Assessment Guide

<p>General Information</p>	<p>Competence outcomes requiring “knowledge of” can be assessed through competency conversations or written assessment. Evidence should be on record showing the outcomes have been met.</p> <p>Competence outcomes requiring “ability to” or skills must have evidence on record demonstrating competence multiple times in a variety of contexts and may be holistically assessed with relevant work activities.</p> <ul style="list-style-type: none"> • Training modules are available for this unit. • Training audit/competency check tool is available for this unit. • A competency conversation is available for this unit. • *Skills to be assessed or “ability to” for this unit are holistically assessed with the summative practical tool.
<p>Evidence to be Assessed</p>	<p>Minimum evidence requirements for this unit must include:</p> <ul style="list-style-type: none"> • Completion of training module and formative assessments. • Completion of competency conversation where applicable. • All required “skills to be assessed” demonstrated multiple times in a variety of contexts. Valid evidence must be on record through training audit/competency check tool.
<p>Evidence Sign Off</p>	<p>Evidence must be signed off by designated:</p> <ul style="list-style-type: none"> • Trainer • Assessor • Supervisor. <p>Final evidence sign off for Certificates of Qualification is the responsibility of the Quality Assurance – Internal and External Verifiers, a function of the relevant administrator.</p>



Unit	1028
Title	Describe and Operate Chainsaw
Document	Unit of Competency

Description	<p>This is a knowledge and ability unit about:</p> <ul style="list-style-type: none"> • Chainsaw Components and Safety Features; • Chainsaw Inspection and Maintenance; • Safe Transport and Carrying of Chainsaw; • Potential Risks associated with Chainsaw Use; • Basic Chainsaw Operation and Ergonomics; and • Limbing and Taping
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Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<p>This unit has the following prerequisites for fallers:</p> <ul style="list-style-type: none"> • 1002 – Describe Forest Industry; or • 1033 – Describe Wildfire Preparedness; or • 1034 – Describe Oil and Gas Industry.
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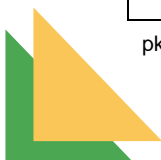
Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Bucker – Forest Industry, Wildfire Service, Oil and Gas Industry • Faller – Forest Industry, Wildfire Service, Oil and Gas Industry • Other forest industry occupations where applicable.
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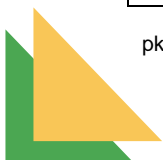
Element	Competence Outcomes
<p>1. Chainsaw Components and Safety Features</p>	<p>1.1. Identify components of a chainsaw in accordance with manufacturers' specifications.</p> <p>Components of a chainsaw must include:</p> <ul style="list-style-type: none"> • Handlebar, throttle lock, chain brake, chain catcher, on/off switch, muffler, dogs, bar tip, chain, sight lines, choke, guide bar, pull cord, anti-vibration mounts, fuel tank and cap, oil tank and cap, bar nuts, decompression switch, spark plug, air filter, rear hand guard. <p>1.2. Identify the safety features of a chainsaw and the control of hazard or injury they provide.</p> <p>Safety features of a chainsaw must include:</p> <ul style="list-style-type: none"> • Chain brake, chain catcher, throttle lock. • Handlebar (full wrap for falling), chain muffler and spark arrestor, chainsaw dogs, sight lines, anti-vibration mounts, decompression switch. <p>1.3. Describe when a chainsaw should not be operated.</p> <p>Chainsaw should not be operated must include:</p> <ul style="list-style-type: none"> • Dragging clutch, missing a chain catcher, the chain brake is not working, the throttle lock is not working, and broken anti-vibration mounts.
<p>2. Chainsaw Inspection and Maintenance</p>	<p>2.1. Inspect and maintain chainsaw in accordance with manufacturers' specifications including requirements for daily, weekly, and monthly maintenance.</p> <p>Inspect and maintain chainsaw must include:</p> <ul style="list-style-type: none"> • Air filter, chain brake, fuel filter, spark plug, fuel/oil tanks, spark arrestor, starter recoil assembly, guide bar, idle screw, clutch, chain sprocket, chain catcher, throttle lock-out, vibration mounts, dog screws, plastic chain guides, recoil spring. <p>Inspect and maintain chainsaw may include:</p> <ul style="list-style-type: none"> • Carburetor, muffler, saw body, cooling fins and air intake. <p>2.2. Identify chain parts and conduct chain maintenance in accordance with manufacturers' specifications.</p>



Element	Competence Outcomes
	<p>Chain parts must include:</p> <ul style="list-style-type: none"> • Cutting edge, gullet, raker, rivet, side strap, driver. <p>Conduct chain maintenance must include:</p> <ul style="list-style-type: none"> • Filing procedure and tools (including using a raker gauge), floating drive sprocket inspections, guide bar and chain inspection, selecting appropriate chain length and gauge for the guide bar. <p>2.3. Identify spare parts and repair tools required on the worksite in accordance with best practices.</p> <p>Spare parts must include:</p> <ul style="list-style-type: none"> • Spare chains and guide bar or bar tip, air filter, starter rope, sprockets, spark plugs, screws, spare filing tools, clutch bearing, clutch, chain tensioner. • Second operational chainsaw may cover spare parts. <p>Repair tools must include:</p> <ul style="list-style-type: none"> • Bar wrench, round file, flat file.
<p>3. Safe Transport and Carrying of Chainsaw</p>	<p>3.1. Demonstrate ability to secure chainsaw when using transport.</p> <p>Transport may include:</p> <ul style="list-style-type: none"> • Potential hazards related to types of transport. • Vehicle, ATV, helicopter and airplane, snowmobile, UTV, marine.
<p>4. Potential Risks Associates with Chainsaw Use</p>	<p>4.1. Explain the hazards related to fueling and ability to fuel safely.</p> <p>Hazard related to fueling may include:</p> <ul style="list-style-type: none"> • Open flames, fuel geysers. <p>Ability to fuel safely must include:</p> <ul style="list-style-type: none"> • Two stroke engine fuel to oil mix ration, distance from worksite.



Element	Competence Outcomes
	<p>4.2. Describe immediate potential risks related to chainsaw. Immediate potential risks related to chainsaw may include:</p> <ul style="list-style-type: none"> • Kickbacks, chain thrown, burns, exhaust emissions, crush or struck by objects, slips, trips, falls, projectiles from chain. <p>4.3. Describe potential long-term injuries related to chainsaw. Potential long-term injuries related to chainsaw may include:</p> <ul style="list-style-type: none"> • Loss of hearing, vibration disease (Raynaud's), MSI.
<p>5. Basic Chainsaw Operation and Ergonomics</p>	<p>5.1. Use personal protective equipment (PPE related to chainsaw use). PPE related to chainsaw use must include:</p> <ul style="list-style-type: none"> • Leg, hand, face, eye protection. <p>5.2. Compare chainsaw size and bar length suitability for the job in accordance with timber type and ergonomic factors (avoidance of overreaching).</p> <p>5.3. Carry chainsaw to and from the worksite and from cut to cut safely. Carry chainsaw must include:</p> <ul style="list-style-type: none"> • Chain stopped before moving from cut to cut, apply chain brake if taking more than three steps without making another cut or saw shut off, brake applied before taking either hand off chainsaw. <p>5.4. Describe the step and demonstrate the ability to conduct basic bucking and cutting sequences in a controlled environment. Basic bucking must include:</p> <ul style="list-style-type: none"> • Top bind, bottom bind, end bind, side bind, boring, V cut. • Use of dogs. • Identify pivot points. <p>Cutting sequences must include:</p> <ul style="list-style-type: none"> • Determining compression and tension, sequences of cut, cutting compression side first, monitor log for movement, finishing the cut.



Element	Competence Outcomes
	5.5. Demonstrate knowledge of and ability to conduct bucking activities ergonomically correct to reduce MSI.
6. Limbing and Taping	<p>6.1. Describe hazards related to limbing.</p> <p>Hazards related to limbing may include:</p> <ul style="list-style-type: none"> • Struck by overhead debris/material, unexpected movement, cuts from chainsaw, struck by limb or chainsaw as a result of limb compression or limb tension, chainsaw kickback, cut or puncture injury by angled cuts (pigs ears) and branch stubs, projectiles from chain (loose bark and small branches), falling from log, slips, trips and falls. <p>6.2. Apply safe limbing procedures.</p> <p>Safe limbing procedures may include:</p> <ul style="list-style-type: none"> • Know when to cut supporting limbs, use relief cuts to release tension on loaded limbs, make flush cuts at bole of tree (no pig ears), limb top and both sides of tree, no cross-body limb cutting, constantly reassess for overhead hazards, power head should not be above shoulder height, ensure secure footing before making each cut, cut large limbs off in sections. <p>6.3. Describe hazards related to taping and how to tape and measure in accordance with safe work procedures.</p> <p>Hazards related to taping may include:</p> <ul style="list-style-type: none"> • Slips, trips or falling off log • Cutting fingers on the tape edge as it rewinds • Being struck by tape as it rewinds • Puncture wounds from tape



Summary of Knowledge and Skills

<p>Summary of Knowledge to be Assessed</p>	<p>For this unit, a competent worker must understand:</p> <ul style="list-style-type: none"> • Components of a chainsaw • Safety features of a chainsaw • Inspection and maintenance requirements of chainsaws • Chain parts and chain maintenance • Common repair tools • Common spare parts • How to secure and transport chainsaws • Hazards related to fuelling • Immediate potential risks related to chainsaw use • Potential long-term injuries related to chainsaw use • PPE related to chainsaw use • Chainsaw and bar length suitability for job • When chainsaws should not be operated • How to carry a chainsaw • Hazards related to chainsaw use • Basic bucking and cutting sequences • Hazards related to limbing and tapping • Safe limbing procedures • How to buck in an ergonomically correct position.
<p>Summary of Skills to be Assessed</p>	<p>For this unit a competent worker must be able to:</p> <ul style="list-style-type: none"> • Inspect and maintain a chainsaw • Conduct chainsaw maintenance • Secure chainsaw for transport • Carry chainsaw long distances safely



	<ul style="list-style-type: none">• Fuel chainsaw safely• Operate chainsaw with both hands• Carry chainsaw to reduce MSI• Conduct pre-work inspections of a chainsaw• Conduct basic bucking and cutting sequences• Apply safe limbing procedures• Use PPE related to chainsaw• Handle chainsaw using safe work procedures• Buck in an ergonomically correct position.
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General Forestry Assessment Guide

<p>General Information</p>	<p>Competence outcomes requiring “knowledge of” can be assessed through competency conversations or written assessment. Evidence should be on record showing the outcomes have been met.</p> <p>Competence outcomes requiring “ability to” or skills must have evidence on record demonstrating competence multiple times in a variety of contexts and may be holistically assessed with relevant work activities.</p> <ul style="list-style-type: none"> • The outcomes of this unit may be met through a training course. • Training modules are available for this unit. • Training audit/competency check tool is available for this unit. • A competency conversation is available for this unit. • *Skills to be assessed or “ability to” for this unit are holistically assessed with the summative practical tool. • This unit is required for Certificate of Qualification – Faller.
<p>Evidence to be Assessed</p>	<p>Minimum evidence requirements for this unit must include:</p> <ul style="list-style-type: none"> • Completion of training module and formative assessments. • Completion of competency conversation where applicable. • All required “skills to be assessed” demonstrated multiple times in a variety of contexts. <p>Faller - Valid evidence must be recorded using documentation mapped to the outcomes or by using the electronic evidence gathering tool.</p>
<p>Evidence Sign Off</p>	<p>Evidence must be signed off by designated:</p> <ul style="list-style-type: none"> • Trainer • Assessor • Supervisor. <p>Final evidence sign off for Certificates of Qualification is the responsibility of the Quality Assurance – Internal and External Verifiers, a function of the relevant administrator.</p>



Unit	1010
Title	Describe and Operate Brushing Saw
Document	Unit of Competency

Description	<p>This is a knowledge and ability unit about:</p> <ul style="list-style-type: none"> • Brushing saw Components and Safety Features; • Brushing saw Inspection and Maintenance; • Safe Transport and Carrying of Brushing Saw; • Basic Brushing saw Operation and Ergonomics; and • Hazards Related to Brushing saw Use. <p>The context of this unit is related to:</p> <ul style="list-style-type: none"> • Herbaceous (trimmers) • Woody brushing (2 – 8-point metal blades) • Circular saw. • This unit is related to gas powered brushing saws.
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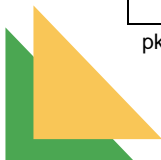
Regulatory Requirements	It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.
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Prerequisite(s)	<p>This unit has the following prerequisites:</p> <ul style="list-style-type: none"> • All occupational skills related to Stand Tending.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Stand Tending • Other forest industry occupations as required.
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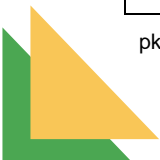
Element of Competence	Competence Outcomes
<p>1. Brushing Saw Components and Safety Features</p>	<p>1.1. Describe the application and use of brushing saws.</p> <p>Application and use of brushing saws must include:</p> <ul style="list-style-type: none"> • Target and non-target species • Height and diameter • Terrain. <p>1.2. Identify the components of a brushing saw.</p> <p>Components of a brushing saw must include:</p> <ul style="list-style-type: none"> • Handlebar, throttle interlock, on/off switch, muffler/spark arrestor, blade, choke, pull cord, recoil spring, anti-vibration mounts, fuel tank and cap, spark plug, air filter, blade nut and washer, blade guard, shaft, harness. <p>Components of a Brushing saw may include:</p> <ul style="list-style-type: none"> • Decompression switch, angle drive lubricating tip, barrier bar. <p>1.3. Explain the safety features of a brushing saw and the control of hazard or injury they provide.</p> <p>Safety features of a brushing saw must include:</p> <ul style="list-style-type: none"> • Handlebar or barrier bar, muffler and spark arrestor, throttle interlock, anti-vibration mounts, blade guard/deflector, harness. <p>Safety features of a brushing saw may include:</p> <ul style="list-style-type: none"> • Decompression switch.
<p>2. Brushing saw Inspection and Maintenance</p>	<p>2.1. Demonstrate ability to inspect and maintain brushing saw in accordance with owner's manual including requirements for daily, weekly, monthly maintenance.</p> <p>Inspect and maintain brushing saw must include:</p> <ul style="list-style-type: none"> • Air filter, fuel filter, spark plug, fuel tanks, spark arrestor, starter recoil assembly, drive shaft, clutch, throttle interlock, vibration mounts, harness, blade, carburetor, muffler, saw body, cooling fins and air intake, refueling.



Element of Competence	Competence Outcomes
	<p>2.2. Describe use of blade and cutting attachments and demonstrate ability to conduct basic inspection and maintenance in accordance with manufacturers' specifications.</p> <p>Blade and cutting attachments may include:</p> <ul style="list-style-type: none"> • Line attachments, two – 8-point metal blades, and circular saw blade. <p>Inspection and maintenance may include:</p> <ul style="list-style-type: none"> • Replace and adjust line, file or replace blade, components of blade (nut, guard). <p>2.3. Identify spare parts required on the worksite in accordance with best practices.</p> <p>Spare parts may include:</p> <ul style="list-style-type: none"> • Blade or line, cutting attachments, sparkplug. <p>2.4. Identify maintenance and repair tools required on the worksite in accordance with best practices and manufacturers specification.</p> <p>Maintenance and repair tools may include:</p> <ul style="list-style-type: none"> • Correct size bar wrench, Allen wrench, torx screw driver, files, line cutting tool, blade stop tool • Tool kit that comes with brushing saw.
<p>3. Safe Transport and Carrying of Brushing saw</p>	<p>3.1. Demonstrate ability to carry brushing saw a long distance safely to the worksite in accordance with safe work procedures and manufacturers' recommendations.</p> <p>3.2. Demonstrate ability to secure brushing saw, cover and protect blade when using transport.</p> <p>Transport may include:</p> <ul style="list-style-type: none"> • Vehicle, marine, aviation, ATV, UTV, snow machine.



Element of Competence	Competence Outcomes
<p>4. Basic Brushing saw Operation and Ergonomics</p>	<p>4.1. Describe personal protective equipment (PPE) <i>related to brushing saw use</i> and demonstrate ability to consistently use.</p> <p>PPE related to brushing saw use must include:</p> <ul style="list-style-type: none"> • Leg protection, long sleeve apparel, hard hat, face screen, hearing protection, protective eyewear • Work boots (caulks where applicable), gloves, high visibility clothing. <p>4.2. Demonstrate ability to do a pre-work inspection of the brushing saw in accordance with manufacturers' specifications.</p> <p>4.3. Explain when a brushing saw must not be operated.</p> <p>Brushing saw must not be operated must include:</p> <ul style="list-style-type: none"> • Deficient or absent guard, damaged engine cowling, throttle interlock not working, spark arrestor deficient or absent, compromised blade or cutting attachment, fuel mix is incorrect. <p>4.4. Demonstrate ability to carry and operate a brushing saw using both hands on the handle area following safe work procedures to reduce MSI.</p> <p>4.5. Demonstrate ability to conduct basic brush saw operation.</p> <p>Basic brush saw operation must include:</p> <ul style="list-style-type: none"> • Debris falls away from operator, correct body position • Not hitting the ground, not binding, avoiding kickback • Effective throttle control • Situational awareness. <p>4.6. Describe injuries that may occur as a result of handling and operating a brushing saw.</p> <p>Injuries may include:</p> <ul style="list-style-type: none"> • Hearing loss, eye injuries, carpal tunnel, Renaud syndrome, burns, blisters, tenosynovitis, tendonitis, over strain, other MSI's and RSI's, cuts, lacerations,

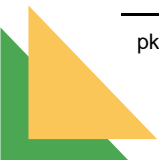


Element of Competence	Competence Outcomes
	punctures, soft tissue injuries.
5. Hazards Related to Brushing saw Use	<p>5.1. Recognize <i>hazards related to brushing saw use.</i></p> <p><i>Hazards related to brushing saw use</i> may include:</p> <ul style="list-style-type: none"> • Kickbacks, projectiles from saw, blade coming off saw, slips, trips, falls, other workers, sticks or limbs, stumps, wildlife, insects, blade, removing debris when saw is running, stump angle, plant toxins, lung or bronchial infection.



Summary of Knowledge and Skills

<p>Summary of Knowledge to be Assessed</p>	<p>For this unit, a competent worker must understand:</p> <ul style="list-style-type: none"> • Components of a brushing saw • Safety features of a brushing saw • Inspection and maintenance requirements of brushing saws • Common repair tools • Common spare parts required • How to carry brushing saws long distances • How to secure and transport brushing saws • PPE related to brushing saw use • Brushing saw and bar length suitability for job • When brushing saws should not be operated • MSI that can occur as a result of brushing saw use • Hazards related to brushing saw use.
<p>Summary of Skills to be Assessed</p>	<p>For this unit a competent worker must be able to:</p> <ul style="list-style-type: none"> • Inspect and maintain a Brushing saw • Safely secure Brushing saw for transport • Safely carry Brushing saw long distances • Conduct pre-work inspections of a Brushing saw • Use PPE related to Brushing saw • Operate Brushing saw using both hands • Handle Brushing saw using safe work procedures.



Stand Tending Assessment Guide

<p>General Information</p>	<p>Competence outcomes requiring “knowledge of” can be assessed through competency conversations or written assessment. Evidence must be on record of competence achieved.</p> <p>Competence outcomes requiring “ability to” or skills must have evidence on record demonstrating competence multiple times in a variety of contexts and may be holistically assessed with relevant work activities.</p> <ul style="list-style-type: none"> • Training modules are available for this unit. • Competency conversations are available for this unit. • Practical assessments are available for this unit.
<p>Evidence to be Assessed</p>	<p>Minimum evidence requirements to achieve this unit must include:</p> <ul style="list-style-type: none"> • Completion of training module and formative assessments related to this unit. • Completion of competency conversation related to this unit. • All required “skills to be assessed” demonstrated multiple times in a variety of contexts. Valid evidence must be on record through training audit/competency check tool.
<p>Evidence Sign Off</p>	<p>Evidence must be signed off by designated:</p> <ul style="list-style-type: none"> • Trainer • Assessor • Supervisor. <p>Final evidence sign off for Certificates of Qualification is the responsibility of the Quality Assurance – Internal and External Verifiers, a function of the relevant administrator.</p>



Unit	1011
Title	Describe Stand Tending
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Stand Tending in Forest Management; • Trees; • Contract Requirements and Planning; and • Tools and Equipment.
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Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<p>This unit has the following prerequisites:</p> <ul style="list-style-type: none"> • All occupational skills related to Stand Tending.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Stand Tending.
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Element of Competence	Competence Outcomes
1. Stand Tending in Forest Management	1.1. Explain the purpose of stand tending.
2. Trees	<p>2.1. Identify the types of trees in British Columbia.</p> <p>Types of trees may include:</p> <ul style="list-style-type: none"> • Douglas Fir, Larch, Pine, Spruce • Western Red Cedar and Yellow Cedar • Hemlock and Balsam • All deciduous – alder, birch, poplar, cottonwood. <p>2.2. Identify common tree diseases and deformity.</p> <p>Tree diseases and deformity must include:</p> <ul style="list-style-type: none"> • Blights, cankers/conks, root rot, blister rust, mistletoe, leader weevil, • Bad form – multiple tops, crooked stems, split trunk, forked stems, witches broom. <p>2.3. Describe how wood condition affects response to cutting.</p> <p>Wood condition may include:</p> <ul style="list-style-type: none"> • Wet or dry, cold or warm, frozen, rotten, burnt • Tension/ spring pole. <p>2.4. Describe and Identify cultural and environment trees.</p>
3. Contract Requirements and Planning	<p>3.1. Explain contract/prescriptions requirements.</p> <p>Contract/prescriptions requirements may include:</p> <ul style="list-style-type: none"> • Species selection, measurement of distance between crop species, crop tree, non-crop tree, crop tree height, void, riparian zone, no treatment zones, cut below last live limb.



Element of Competence	Competence Outcomes
	<p>3.2. Describe how to <i>work the piece</i> within site conditions and demonstrate ability to do so</p> <p><i>Work the piece</i> must include:</p> <ul style="list-style-type: none"> • Terrain consideration, placement of other workers, buddy system, evacuation routes, maintain two tree length distances between workers, check in procedures, ribbon lines. <p>3.3. Explain <i>area-based payment</i>.</p> <p><i>Area based payment</i> must include:</p> <ul style="list-style-type: none"> • GPS calculated area, price per hectare.
<p>4. Tools and Equipment</p>	<p>4.1. Describe how to <i>operate tools and equipment</i> used in Stand Tending.</p> <p><i>Operate Tools and Equipment</i> may include:</p> <ul style="list-style-type: none"> • Mechanized and non-mechanized pole saw, ladders, loppers, hand pruners, girdler, chainsaw, pruning saw, brush saw, feed chipper. <p>4.2. Describe <i>mobile equipment used</i>.</p> <p><i>Mobile Equipment used</i> may include:</p> <ul style="list-style-type: none"> • UTV (side by side), ATV, Skid-steer for wildfire fuel management, logging equipment, snow mobile.



Summary of Skills and Knowledge

<p>Summary of Knowledge to be Assessed</p>	<p>For this unit, a competent worker must understand:</p> <ul style="list-style-type: none"> • The purpose of stand tending • Types of trees • Common diseases and deformities • Wood conditions effect on cutting • Cultural and environment trees • Contract/prescriptions requirements • How to work the piece • Area-based payment • How to operate tools and equipment • Mobile equipment use.
<p>Summary of Skills to be Assessed</p>	<p>For this unit a competent worker must be able to:</p> <ul style="list-style-type: none"> • Work the piece within site conditions.

Stand Tending Assessment Guide

<p>General Information</p>	<p>Competence outcomes requiring “knowledge of” can be assessed through competency conversations or written assessment. Evidence must be on record of competence achieved.</p> <p>Competence outcomes requiring “ability to” or skills must have evidence on record demonstrating competence multiple times in a variety of contexts and may be holistically assessed with relevant work activities.</p> <ul style="list-style-type: none"> • Training modules are available for this unit. • Competency conversations are available for this unit • Practical assessments are available for this unit.
<p>Evidence to be Assessed</p>	<p>Minimum evidence requirements to achieve this unit must include:</p> <ul style="list-style-type: none"> • Completion of training module and formative assessments related to this unit. • Completion of competency conversation related to this unit.



Evidence Sign Off	<p>Evidence must be signed off by designated:</p> <ul style="list-style-type: none">• Trainer• Assessor• Supervisor. <p>Final evidence sign off for Certificates of Qualification is the responsibility of the Quality Assurance – Internal and External Verifiers, a function of the relevant administrator.</p>
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Unit	1012
Title	Conduct Stand Tending Treatments
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Pruning • Brushing and Spacing • Stand Tending for Wildfire Fuel Management; and • Stand Tending Hazards.
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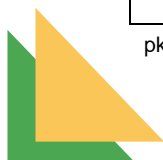
Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<p>This unit has the following prerequisites:</p> <ul style="list-style-type: none"> • All occupational skills related to Stand Tending.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Stand Tending
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Element of Competence	Competence Outcomes
1. Pruning	<p>1.1. Describe how to prune and demonstrate ability to prune.</p> <p>Prune must include:</p> <ul style="list-style-type: none"> • 3 – 5 meters general height of pruning • Clean flush cut to the collar • All branches removed to designated height • No chain or brush saw above shoulder.
2. Brushing and Spacing	<p>2.1. Describe how to space and demonstrate ability to space.</p> <p>Space must include:</p> <ul style="list-style-type: none"> • Identify the preferred crop tree • Thin or space to prescription • Crop tree based on size, height, vigor, density, species. <p>Space may include:</p> <ul style="list-style-type: none"> • ‘Ghost’ trees recognition. <p>2.2. Describe the purpose of brushing and demonstrate ability to conduct brushing.</p> <p>Brushing must include:</p> <ul style="list-style-type: none"> • Identify target competing species (woody /herbaceous) • Identify crop tree • Follow contract specs. <p>Brushing may include:</p> <ul style="list-style-type: none"> • ‘Ghost’ trees recognition.
3. Stand Tending for Wildfire Fuel Management	<p>3.1. Describe fire management.</p> <p>Fire management must include:</p> <ul style="list-style-type: none"> • Crown separation/closure, removal of ladder fuels.



Element of Competence	Competence Outcomes
	<p>3.2. Demonstrate ability to perform slash management/fire risk management.</p> <p>3.3. Demonstrate knowledge of density for volume or crown closure.</p> <p>Volume or crown closure must include:</p> <ul style="list-style-type: none"> • Stems per hectare, healthy crop trees. <p>3.4. Describe and follow prescriptions.</p> <p>Prescriptions may include:</p> <ul style="list-style-type: none"> • Wood left, wood gathered and piled, wood to be burned or wood to be chipped • Rake and restore fire pits • Wildlife considerations • Stakeholder requirements • Pruning heights.
4. Stand Tending Hazards	<p>4.1. Describe when a chainsaw should be used instead of a brush saw.</p> <p>4.2. Explain when a faller is required to fall a tree.</p> <p>4.3. Recognize hazards related to stand tending.</p> <p>Hazards related to stand tending may include:</p> <ul style="list-style-type: none"> • Spring poles, burns, chippers, smoke, overhead hazards, weather, insects, wildlife, heavy material, debris, stumps, tension and limbs, stem hazards • Ground hazards, stem hazards, overhead hazards, poor planning hazards, environmental hazards.



Summary of Knowledge and Skills

Summary of Knowledge to be Assessed	For this unit, a competent worker must understand: <ul style="list-style-type: none">• Pruning• Spacing• Brushing• Wildfire fire management• Density for volume or crown closure• Prescription• When a faller is required• Hazards related to Stand Tending.
Summary of Skills to be Assessed	For this unit a competent worker must be able to: <ul style="list-style-type: none">• Prune• Space• Brush• Perform slash management/fire risk management• Follow prescriptions.



Stand Tending Assessment Guide

<p>General Information</p>	<p>Competence outcomes requiring “knowledge of” can be assessed through competency conversations or written assessment. Evidence must be on record of competence achieved.</p> <p>Competence outcomes requiring “ability to” or skills must have evidence on record demonstrating competence multiple times in a variety of contexts and may be holistically assessed with relevant work activities.</p> <ul style="list-style-type: none"> • Training modules are available for this unit. • Competency conversations are available for this unit. • Practical assessments are available for this unit.
<p>Evidence to be Assessed</p>	<p>Minimum evidence requirements to achieve this unit must include:</p> <ul style="list-style-type: none"> • Completion of training module and formative assessments related to this unit. • Completion of competency conversation related to this unit. • All required “skills to be assessed” demonstrated multiple times in a variety of contexts. Valid evidence must be on record through training audit/competency check tool.
<p>Evidence Sign Off</p>	<p>Evidence must be signed off by designated:</p> <ul style="list-style-type: none"> • Trainer • Assessor • Supervisor. <p>Final evidence sign off for Certificates of Qualification is the responsibility of the Quality Assurance – Internal and External Verifiers, a function of the relevant administrator.</p>



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