



BC Forest Safety

Yarding Package

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Version Control

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

Version		Comments
2024-07-18	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Printed copies are considered uncontrolled and may be outdated.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.

There are three types of certificates depending on the package. For this package the following are available

Occupation Descriptions

The following occupations are part of this package:

- Chokerperson
- Rigging Slinger
- Landing/Utilityperson
- Hook Tender
- Tower Operator
- Grapple Yarder Operator

Chokerperson

A chokerperson works on forested slopes attaching a choker to each log, then hooks the tail of the choker to another cable or hook to allow for a machine to safely pull the log toward the road. A choker is a noose of strong cable (wire rope) secured around a log by hooking one end of the cable noose to a bell that slides and cinches around the log end.

On cable logging operations, the chokerperson assists with safely moving and re-rigging the cables and blocks used to pull/suspend logs toward the road. The chokerperson also may use a radio to help guide movements of cables, machinery, and crew members to hook the logs. The chokerperson usually works in teams of 2 to 5 workers.

The chokerperson communicates safe log movement instructions using a radio and hand signals.

The chokerperson is required to wear personal protective equipment, and must have the physical fitness and endurance to hike steep forest terrain, and climb over downed trees, while carrying radio and heavy cable rigging.

Rigging Slinger

Working on forested slopes, the rigging slinger directs a rigging crew of 2 to 6 workers, consisting of choker setters and chasers.

On cable logging operations, the rigging slinger also directs the safe movement and rigging of cables, blocks, and machinery used to pull/suspend logs toward the road. The rigging slinger uses up to three radios to guide the movements of cables, machinery, and crew members to hook the logs.

A choker setter is a worker who attaches a choker to each downed log, then hooks the tail of the choker to another machine, cable, or hook, which can safely pull the log toward the road. A choker is a noose of strong cable (wire rope) that is secured around a log by hooking one end of the cable noose to a bell that slides and cinches around the log end.

A rigging slinger communicates safe log movement instructions using a radio and hand signals. A rigging slinger is required to wear personal protective equipment, and to have the physical fitness and endurance to hike steep forest terrain and climb over downed trees, while carrying radio and heavy cable rigging.



Landing/Utility Person

Under supervision, a landing/utility person unhooks turns in the landing. The landing/utility person manages the equipment for the rigging slinger and Chokerperson and assists in the setting up and taking down of machines.

The landing/utility person operates chainsaws, splices, and understands the following:

- ◆ Condition of line
- ◆ Rigging and block maintenance
- ◆ Use of quick fix knobs
- ◆ Whistles, hand signals, and landing hazards (as a result of working around machines)

A landing/utility person is required to wear personal protective equipment. The landing/utility person must be physically fit to hike steep forest terrain, and climb over downed trees, while carrying radio and heavy cable rigging.

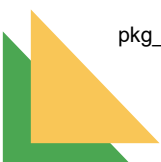
Tower Operator

The tower operator operates a cable yarder parked on a roadside landing to lift logs and trees from the stump to the road (over distances of up to one mile) using cable rigging systems. The operator runs a purpose-built machine called a “skyline yarder” (a portable steel tower 40-110 feet tall) that uses diesel-powered winches and a suspended cable system to lift and move logs over steep slopes, from the stump to a roadside landing area. Once positioned, the stationary yarder remains at a centralized roadside log landing area where logs/trees are collected from the forest. The yarder machine, and its tall tower, are rigged with numerous cables which can suspend logs and carry logs over distances of up to a half mile or more.

The tower operator sits in a climate-controlled cab and operates hand and foot controls to safely direct the winches that maneuver the cables and other rigging that carries the logs. The cable rigging system may use a radio-controlled, motorized carriage. The carriage is a smaller machine that is suspended by the cables which lifts and pulls cut logs/trees as they are hauled to the landing, minimizing damage to the soil. The tower operator constantly communicates safe cable rigging and log movement activities using audio-electronic signals, radio-controlled devices, and radios.

The tower operator may be responsible for basic machine servicing, refueling, diagnostics, and minor repairs.

The tower operator is required to wear personal protective equipment, climb off and onto the yarder, and walk on sloping forest terrain.



Grapple Yarder Operator

The grapple yarder operator runs the yarding machine to pull logs from the cutting area to the landing. Using the yarding machine, the grapple yarder operator will do the following:

- ◆ Control direction, speed and braking of cable drums to position chokers or grapples over logs
- ◆ Pull logs across cutting area
- ◆ Lift logs over tree trunks and other obstructions
- ◆ Position logs for loading onto trucks, using pedals and hand levers in response to whistle or horn code signals

The grapple yarder operator also may do the following:

- ◆ Drag blocks, cable, and other equipment to the rigging crew
- ◆ Raise steel tower, or pre-rigged spar, and tension guylines
- ◆ Drive self-propelled yarder between yarding sites

The operator also may be designated according to type of yarding system used as:

- ◆ High lead yarder (logging)
- ◆ Skyline yarder (logging)
- ◆ Slackline yarder (logging)

The operator also may be designated according to type of equipment operated as:

- ◆ Grapple yarder operator (logging)
- ◆ Steel spar operator (logging)
- ◆ Triple drum operator (logging)

The grapple yarder operator constantly communicates safe cable rigging and log movement activities using audio-electronic signals, radio-controlled devices, and radios.

The grapple yarder operator may be responsible for basic service on the machine, refueling, diagnostics, and minor repairs.

The grapple yarder operator is also required to wear personal protective equipment, climb off and onto the yarder and walk on sloping forest terrain

Hook Tender

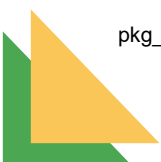
The hook tender is responsible for the following:

- ◆ Supervising and coordinating activities of workers engaged in yarding and loading logs in high lead, slackline, or similar cable yarding systems
- ◆ Determining the location of blocks, guylines, spar and yarding, and loading equipment according to location and size of landing and type of terrain
- ◆ Inspecting the rigging for defects and overseeing maintenance, repair or replacement
- ◆ Directing the rigging crew in setting side and tail blocks, rigging spars, notching anchor stumps, raising guylines, and installing running tackle
- ◆ Observing the yarding system in operation and directing relocation of rigging to relieve equipment strain or to extend range of the yarding system
- ◆ Informing the rigging slinger of log removal sequence
- ◆ Coordinating the dismantling and moving of equipment to a new site

The hook tender is responsible for training workers in safety regulations and activities such as:

- ◆ Splicing cable
- ◆ Maintaining equipment and rigging
- ◆ Operating yarding systems

The hook tender may also supervise a crew of tractor yarding workers.



Occupational Analysis Chart

This Master OAC outlines the scope of the Yarding occupations in the forest industry and shows the correlation between the following occupations and their competencies:

1. Chokerperson (C)
2. Rigging Slinger (R)
3. Landing/Utility Person (UL)
4. Tower Operator (T)
5. Grapple Yarder Operator (G)
6. Hook Tender (H)

OCCUPATIONAL SKILLS A	Describe Forest Industry 1002	Describe Personal and Worksite Safety 1003	Communicate in the Workplace 1004	Recognize Hazards Related to General Forestry 1005	Describe Workplace Documentation 1006	Describe Emergency Preparedness 1007	
	C R UL GT H	C R UL GT H	C R UL GT H	C R UL GT H	C R UL GT H	C R UL GT H	
	Describe and Apply Workplace Attributes 1008	Recognize, Evaluate, and Control Hazards Related to Yarding 1009	Describe Signals Used in Forestry 1068	Describe Risk and Risk Control 1039	Describe Regulations and Legislation Related to General Forestry 1036		
	C R UL GT H	C R UL GT H	C R UL GT H	C R UL GT H	C R UL GT H		
	RIGGING B	Describe Rigging Components and Basic Rigging Practices 1013	Describe and Apply Advanced Rigging Practices 1014				
		C R UL GT H	GT H				

PLANNING
C

Plan Block for Yarding				
1015				
				H

Plan and Manage Day to Day Activities for Yarding				
1016				
				H

TOWER OPERATOR
D

Describe and Operate Tower				
1017				
			T	

Set Up and Take Down Tower				
1018				
			T	

Move Tower				
1020				
			T	

GRAPPLE YARDER OPERATOR
E

Describe and Operate Grapple Yarder				
1021				
			G	

Move Equipment				
1022				
			G	

PRACTICAL APPLICATION
F

Apply General Yarding Skills				
1019				
C	R	UL		H

Apply Chokerperson and Rigging Slinger Skills				
1023				
C	R			

Apply Landing/Utility Person Skills				
1025				
		UL		

Apply Hook Tender Skills				
1026				
				H

GENERAL OPTIONAL
G

Describe and Operate Chainsaw				
1028				
	UL			H

Climb Trees for Rigging				
1030				
		UL		H

Describe and Operate Backspar				
1031				

Apply Advanced Rigging Techniques				
1032				

Units/Modules

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

Unit	Title
1002	Describe Forest Industry
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
1009	Recognize, Evaluate and Control Hazards related to Yarding
1068	Describe Signals Used in Forestry
1036	Describe Regulation and Legislation related to General Forestry
1039	Describe Risk and Risk Control
1013	Describe Rigging Components and Basic Rigging Practices



Chokerperson	Rigging Slinger	Landing /Utilityperson	Hook Tender	Grapple Yarder	Tower Operator
Core Units	Core Units	Core Units	Core Units	Core Units	Core Units
1002	1002	1002	1002	1002	1002
1003	1003	1003	1003	1003	1003
1004	1004	1004	1004	1004	1004
1005	1005	1005	1005	1005	1005
1006	1006	1006	1006	1006	1006
1007	1007	1007	1007	1007	1007
1008	1008	1008	1008	1008	1008
1009	1009	1009	1009	1009	1009
1036	1036	1036	1036	1036	1036
1039	1039	1039	1039	1039	1039
1068	1068	1068	1068	1068	1068
1013	1013	1013	1013	1013	1013
Additional Units	Additional Units	Additional Units	Additional Units	Additional Units	Additional Units
1023	1024	1025	1014	1014	1014
		1028	1015	1021	1017
		1030	1016	1022	1018
			1026		1019
			1028		1020
			1030		
Optional Units	Optional Units	Optional Units	Optional Units	Optional Units	Optional Units
1028	1028	1031	1031	1028	1028
1030	1030	1032	1032	1030	1030
1031	1031			1031	1031
1032	1032			1032	1032



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	1002
Title	Describe Forest Industry
Document	Unit of Competency

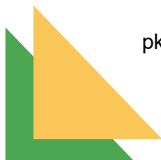
Description	<p>This is a knowledge unit about:</p> <ul style="list-style-type: none"> • Terminology; • Phases of Forestry; • Harvesting Methods; • Environmental and Cultural Considerations; • Types of Trees and Logs; • Transportation Methods; and • Regulations.
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Regulatory 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"> • There are no prerequisites for this unit.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • All forest industry occupations.
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Element	Competence Outcomes
<p>1. Terminology and Phases of Forestry</p>	<p>1.1. Explain general terminology in the forest industry in accordance with industry accepted terms.</p> <p>General terminology may include:</p> <ul style="list-style-type: none"> • General forestry, hand falling, mechanized falling, yarding, road building, log hauling. <p>1.2. Describe the phases of forestry and forestry planning.</p> <p>Phases of forestry and forestry planning must include:</p> <ul style="list-style-type: none"> • Engineering and planning, road building, falling, yarding, log hauling, dryland sort (booming, scaling, grading), end location of product, salvage, waste management, deactivation and silviculture.
<p>2. Forestry as a Business</p>	<p>2.1. Describe forestry as a business in accordance with industry best practice.</p> <p>Forestry as a business must include:</p> <ul style="list-style-type: none"> • Sustainable forestry, tenures, privately managed forest lands.
<p>3. Harvesting Methods</p>	<p>3.1. Explain application of harvesting methods.</p> <p>Harvesting methods may include:</p> <ul style="list-style-type: none"> • Cable yarding, grapple yarding, super snorkel, long line, single tree select harvesting, helicopter, horse logging, clean up (salvaging). <p>3.2. Identify types of equipment used for mechanical harvesting.</p> <p>Equipment used for Mechanical Harvesting may include:</p> <ul style="list-style-type: none"> • Feller bunchers, skidders, forwarders, processors (dangle head and hot saw), delimiters, dozers.
<p>4. Environmental and Cultural Considerations</p>	<p>4.1. Describe environmental considerations when undertaking forestry operations in accordance with industry best practices.</p> <p>Environmental considerations must include:</p> <ul style="list-style-type: none"> • Ground and site disturbance, waterway and streams, wildlife.



Element	Competence Outcomes
	<p>4.2. Describe cultural considerations when undertaking forestry operations in accordance with industry best practices.</p> <p>Cultural considerations must include:</p> <ul style="list-style-type: none"> • First nations, government ministries.
<p>5. Types of Trees and Logs</p>	<p>5.1. Identify types of trees logged in British Columbia and their use.</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 • Hemlocks and Balsam • All deciduous. <p>5.2. Describe grade of logs and their characteristics found in the worksite.</p> <p>Grade of logs must include:</p> <ul style="list-style-type: none"> • Cedar and Douglas fir poles, chip and saw logs, cull logs, cut-to-length logs, gang, high grade, mulch, peeler logs, pulp logs, shake and shingle logs, tree lengths logs.
<p>6. Transportation Methods</p>	<p>6.1. Identify transportation methods used within the forest industry.</p> <p>Transportation methods may include:</p> <ul style="list-style-type: none"> • Ground • Aviation – fixed wing and helicopter • Marine – small passenger vessel, boom boat, tug boat.
<p>7. Regulations</p>	<p>7.1. Identify regulations and legislation and how they apply in the forestry setting.</p> <p>Regulations and legislation must include:</p> <ul style="list-style-type: none"> • OHSR Part 1, 2, 3, 4, 12, 15, 16, 17, 19, 21 • OHSR 26 - Forestry.



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">• General forestry terminology• Phases of forestry and forestry planning• Forestry as a business• Harvesting methods• Harvesting equipment• Environment considerations• Cultural considerations• Sustainability in forestry• Types of trees in British Columbia• Grades of logs• Transportation methods• General legislation and regulations related to working in forestry.
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.
Evidence to be Assessed	<p>Minimum evidence requirements for this unit must include:</p> <ul style="list-style-type: none">• Completion of related training module.
Evidence Sign Off	<p>Evidence must be signed off by:</p> <ul style="list-style-type: none">• No evidence sign-off required.



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

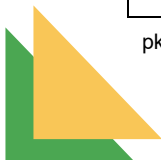
Description	<p>This is knowledge unit about:</p> <ul style="list-style-type: none"> • Personal Safety; and • Worksite Safety.
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Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about 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,



Element	Competence Outcomes
	<p>highway/public roads, blast radius, overhead hazards (lines, rigging, trees).</p> <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

Summary of Knowledge to be Assessed	<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.
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	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

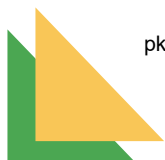
Description	<p>This is a knowledge unit about:</p> <ul style="list-style-type: none"> • Health Hazards; • Operational Hazards; and • Environmental Hazards.
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Regulatory Requirements	<p>It is always the responsibility of any person using these materials 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

Summary of Knowledge to be Assessed	<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
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. • 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.
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	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 reading 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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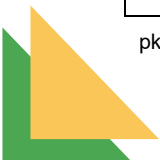
Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<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, oxygen, EPI pen, AED, baby aspirin, naloxone.



Element	Competence Outcomes
	<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>Why 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. • Demonstrate ability to achieve outcomes while maintaining safe work practices.
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</p>



Element	Competence Outcomes
	<p>job and how to mitigate them.</p> <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.



	<ul style="list-style-type: none"> • Achieve outcomes.
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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> <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.
Evidence to be Assessed	<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.
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	1009
Title	Recognize, Evaluate and Control Hazards related to Yarding
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • General hazards and controls related to Yarding; • Road change hazards and controls; and • Breaking out hazards and controls. <p>This unit is NOT about:</p> <ul style="list-style-type: none"> • Health hazards and controls; • Environmental hazards and controls; or • General forestry hazards and controls.
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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"> • 1002 – Describe Forest Industry.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Yarding occupations.
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<p>1. Road Change Hazards and Controls</p>	<p>1.1. Recognize road change hazards and the means to control them.</p> <p>Road change hazards must include:</p> <ul style="list-style-type: none"> • Carrying heavy loads, handling wire rope, chainsaw use, wire rope failure, strap or anchor failure, flying debris, binds or bights, unplanned rope or wire rigging movement, tail hold failure, jiggers puncturing hand, unrecognized long logs.
<p>2. Breaking Out Hazards and Controls</p>	<p>2.1. Recognize breaking out hazards and the means to control them.</p> <p>Breaking out hazards must include:</p> <ul style="list-style-type: none"> • Terrain and obstructions, the bight, unexpected log/deck movement, unplanned rope or wire rigging movement, heavy undergrowth, wire rope and rigging, flying debris, overhead hazards (elevated ropes, rigging, turn), other machinery and operations, anchor failure, incorrect signals, runaway logs from landing, slash or butt ends rolling off landing, a hung up drag/turn, dislodged rocks, logs or debris, too close to moving lines.



Summary of Knowledge and Skills

Summary of Knowledge to be Assessed	<p>For this unit, a competent worker must understand:</p> <p>General Hazards and Controls Related to Yarding</p> <ul style="list-style-type: none">• Overloading of yarding systems• Machine stability• Equipment location• Anchor failure• Cable failure• Run-away logs• Log piles• Unstable topography• Hazard and safe zones• Phase congestion• Communication failure• Windthrow• Night operations• Windows• Line pulling of trees• Spooling and cutting lines. <p>Road Change Hazards and Controls</p> <ul style="list-style-type: none">• Carrying heavy loads• Handling wire rope• Chainsaw use• Wire rope failure• Strap or anchor failure• Flying debris• Binds or bights• Unplanned rope or wire rigging movement• Tail hold failure• Jagers puncturing hand• Unrecognized long logs.
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	<p>Breaking Out Hazards and Controls</p> <ul style="list-style-type: none"> • Terrain and obstructions • The bight • Unexpected log/deck movement • Unplanned rope or wire rigging movement • Heavy undergrowth • Wire rope and rigging • Flying debris • Overhead hazards (elevated ropes, rigging, turn) • Other machinery and operations • Anchor failure • Incorrect signals • Runaway logs from landing • Slash or butt ends rolling off landing • A hung up drag/turn • Dislodged, rocks • Logs or debris • Too close to moving lines.
<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.



Yarding 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 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.
<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.
<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	1013
Title	Describe Rigging Components and Basic Rigging Practices
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Rigging Terminology and Components; and • Basic Rigging Practices.
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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"> • 1002 – Describe Forest Industry.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Yarding occupations.
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Element of Competence	Competence Outcomes
1. Rigging Terminology and Components	1.1. Describe rigging terminology and definitions. 1.2. Identify rigging components . Rigging components must include: <ul style="list-style-type: none"> • Wire rope, blocks, straps, anchors, guylines, shackles, grapple, butt rigging, carriages, hooks, cinches, eye bolt spreader bars, sheaves, thimbles, cable clamps • Types of slings.
2. Basic Rigging Practices	2.1. Describe basic rigging practices. 2.2. Identify the condition of rigging including use, maintenance, removal, and storage. 2.3. Explain basic rigging math. 2.4. Explain the use of twisters.

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"> • Rigging terminology • Rigging components • Basic rigging math • Basic rigging practices • Use, maintenance, storage, and removal of rigging parts. • Use of twisters
Summary of Skills to be Assessed	For this unit a competent worker must be able to: <ul style="list-style-type: none"> • This is a knowledge only unit.



Yarding 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 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.
<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.
<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	1068
Title	Describe Signals used in Forestry
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Hand signals for Yarding; • Blasting signals; • Audible yarding signals; and • Loading and Hauling signals.
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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"> • 1002 – Describe Forest Industry
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • All yarding occupations. • All mechanized harvesting occupations.
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Element of Competence	Competence Outcomes
1. Hand and Blasting Signals	1.1. Demonstrate hand signals in accordance with OHSR table 26 – 7. 1.2. Describe blasting signals used in forestry.
2. Yarding, Loading, and Hauling Signals	2.1. Demonstrate yarding signals . Yarding signals may include: <ul style="list-style-type: none"> • Audible, verbal 2.2. Demonstrate loading and hauling signals.

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"> • Hand signals used in forestry • Blasting signals • Yarding signals • Loading and hauling signals.
Summary of Skills to be Assessed	For this unit a competent worker must be able to: <ul style="list-style-type: none"> • This is a knowledge only unit.



Yarding 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 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.
<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.
<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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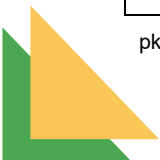
Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<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.
3. Safe Transport and Carrying of Chainsaw	<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.
4. Potential Risks Associates with Chainsaw Use	<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. <p>4.2. Describe immediate potential risks related to chainsaw.</p> <p>Immediate potential risks related to chainsaw may include:</p>



Element	Competence Outcomes
	<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.</p> <p>Potential long-term injuries related to chainsaw use may include:</p> <ul style="list-style-type: none"> • Loss of hearing, vibration disease (Raynaud's), MSI.
5. Basic Chainsaw Operation and Ergonomics	<p>5.1. Use personal protective equipment (PPE related to chainsaw use).</p> <p>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.</p> <p>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.</p> <p>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. <p>5.5. Demonstrate knowledge of and ability to conduct bucking</p>



Element	Competence Outcomes
	activities ergonomically correct to reduce MSI.
6. Limbing and Taping	<p data-bbox="524 317 1101 348">6.1. Describe <i>hazards related to limbing</i>.</p> <p data-bbox="605 380 1146 411"><i>Hazards related to limbing</i> may include:</p> <ul data-bbox="654 436 1422 667" 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 data-bbox="524 726 1032 758">6.2. Apply <i>safe limbing procedures</i>.</p> <p data-bbox="605 789 1118 821"><i>Safe limbing procedures</i> may include:</p> <ul data-bbox="654 846 1422 1104" 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 data-bbox="524 1178 1430 1251">6.3. Describe <i>hazards related to taping</i> and how to tape and measure in accordance with safe work procedures.</p> <p data-bbox="605 1283 1127 1314"><i>Hazards related to taping</i> may include:</p> <ul data-bbox="654 1356 1289 1549" 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

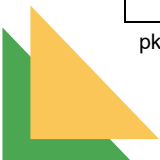
<p>Summary of Knowledge to be Assessed</p>	<p>For this unit, a competent worker must understand:</p> <ul style="list-style-type: none"> • Components of a chainsaw • Safety features of a chainsaw • Inspection and maintenance requirements of chainsaws • Chain parts and chain maintenance • Common repair tools • Common spare parts • How to secure and transport chainsaws • Hazards related to fueling • 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



	<ul style="list-style-type: none"> • Carry chainsaw long distances safely • 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.



	<ul style="list-style-type: none"> • 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>
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	1036
Title	Describe Regulations and Standards Related to General Forestry
Document	Unit of Competency

Description	<p>This is a knowledge unit about:</p> <ul style="list-style-type: none"> • Regulations and Legislation related to Working in Forestry
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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"> • All forestry occupations where applicable.
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Element	Competence Outcomes
1. Legislation	<p>1.1. Describe the purpose of the Workers Compensation Act 21 - 26 and where it can be accessed.</p> <p>1.2. Describe the Wildfire Act and how it affects forestry operations.</p> <p>1.3. Explain the purpose of the Workers Compensation Act Division 10 Accident Reporting and Investigation, how it applies and where it can be accessed.</p> <p>1.4. Explain the purpose of the Forest and Range Practices Act and where it can be accessed.</p> <p>1.5. Explain the purpose of “Notice to Airmen” how it applies and where it can be accessed.</p>
2. Regulations	<p>2.1. Describe enforcement and WorkSafeBC responsibilities.</p> <p>2.2. Explain general regulations that apply to the forest industry including part 26.</p> <p>General Regulations must include:</p> <ul style="list-style-type: none"> • Definitions, general requirements, equipment operation, manual falling and bucking, mechanical falling, traffic control, yarding, skidding, forestry work areas, hauling, roads and road maintenance, water operations. <p>2.3. Explain how to access regulations and standards in the workplace environment.</p>



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">• Workers Compensation Act Division 10• Wildfire Act• Forest and Range Practice Act• Notice to Airmen• WorkSafeBC responsibilities and enforcement• General regulations related to Forestry• How to access regulations.
Summary of Skills to be Assessed	For this unit a competent worker must be able to: <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 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.
<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.
<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	1039
Title	Describe Risk and Risk Control
Document	Unit of Competency

Description	<p>This is a knowledge only unit about:</p> <ul style="list-style-type: none"> • Hierarchy of Controls; and • Evaluating Risk.
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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. Hierarchy of Controls	1.1. Describe the risk assessment process. 1.2. Explain the <i>hierarchy of controls</i> . <i>Hierarchy of controls</i> must include: <ul style="list-style-type: none"> • Elimination, substitution, engineering controls, administration controls, PPE. 1.3. Describe the levels of effectiveness for safety controls.
2. Evaluating Risk	2.1. Evaluate long term and general risk including frequency and probability. 2.2. Evaluate immediate risks including frequency and probability. 2.3. Evaluate how change or unexpected events affect risk levels.

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"> • Risk assessment • Hierarchy of controls • Levels of effectiveness for safety controls • Evaluating long term and general risks • Evaluating immediate risk • How change or unexpected events affect risk levels.
Summary of Skills to be Assessed	For this unit a competent worker must be able to: <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. • A standardized hazard identification form has been developed to support this unit. • 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.
<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	1014
Title	Describe and Apply Advanced Rigging Practices
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Tail hold; and • Advanced Rigging Practices – Grapple Yarder and Tower.
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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"> • 1002 – Describe Forest Industry • 1013 – Describe Rigging Components and Apply Basic Rigging Practices.
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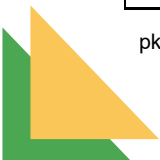
Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Grapple Yarder Operator • Hook Tender • Tower Operator.
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Element of Competence	Competence Outcomes
1. Tail Hold	<p>1.1. Demonstrate ability to choose tail hold that is in the appropriate position and strength for logging system.</p> <p>Tail hold may include:</p> <ul style="list-style-type: none"> • Grapple yarding, butt rigging and chokers, or drop line carriage and chokers. <p>Tail hold must include:</p> <ul style="list-style-type: none"> • Consideration for deflection.
2. Advanced Rigging Practices – Grapple Yarder and Tower	<p>2.1. Explain rigging math required in the block (Tower and Grapple).</p> <p>Rigging math must include:</p> <ul style="list-style-type: none"> • Guyline placement, deflection, loads. <p>2.2. Explain elevated rigging on trees for deflection (Tower and Grapple).</p> <p>2.3. Use of grapples, carriages, and butt rigging (Grapple).</p> <p>2.4. Describe carriages (Tower).</p> <p>2.5. Describe gravity systems (Tower).</p> <p>2.6. Describe north/south bend (Tower).</p>



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"> • Change roads (strawline) • Change closing and opening line (rigging Grapple) • Guyline placement and moving guylines • Backspar guylines • Notch guylines • Put knobs on • Do basic rigging math for guyline placement • Types of splicing – Passing, Molly Hogan’s, Farmer’s Eye, Logger’s Eye, Strawline • Deflection • Rig stumps • Twisters • Jill-poke supports • Deadweight anchors • Tightening sequence for guylines • Rigging practices including setting chokers • Procedures for changing. <p>Apply Advanced Rigging Practices (Grapple)</p> <ul style="list-style-type: none"> • Advanced rigging math (guyline placement, deflection, loads) • Grapples, carriages, and butt rigging • Elevated rigging on trees. <p>Apply Advanced Rigging Practices (Tower)</p> <ul style="list-style-type: none"> • Advanced rigging math (guyline placement, deflection, loads) • Carriages • Gravity systems • North/South bend • Elevated rigging on trees.
<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"> • Choose tail holds • Use grapples, carriage and butt rigging (Grapple).



Unit	1015
Title	Plan Block for Yarding
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Planning the Block; • Poor Planning Hazards; • Environmental Considerations; and • Worker 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:</p> <ul style="list-style-type: none"> • All occupational skills and rigging units related to Yarding.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Hook Tender.
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Element of Competence	Competence Outcomes
1. Planning the Block	<p>1.1. Demonstrate ability to read and apply block map.</p> <p>1.2. Demonstrate ability to place equipment in accordance with job requirements.</p> <p>1.3. Explain general consideration when planning block for logging.</p> <p>General consideration may include:</p> <ul style="list-style-type: none"> • Type of terrain, size and volume of timber, yarding distances and deflection, landing areas, cross slope movement of yarding lines. <p>1.4. Demonstrate ability to coordinate block plan with supervisor.</p> <p>1.5. Describe the sequence to avoid phase congestion when planning block for logging.</p> <p>1.6. Describe trespass when block planning.</p> <p>Trespass may include:</p> <ul style="list-style-type: none"> • Legal boundaries, mining claim, posts.
2. Poor Planning Hazards	<p>2.1. Describe hazards related to block planning.</p> <p>Hazards may include:</p> <ul style="list-style-type: none"> • Terrain, steep slopes, windthrow, runaway logs.
3. Environmental Considerations	<p>3.1. Describe environmental considerations when planning block activities.</p> <p>Environmental considerations may include:</p> <ul style="list-style-type: none"> • Riparian, fish non-fish streams, weather shutdown criteria, feathered edges, site degradation.
4. Worker Safety	<p>4.1. Describe safety for crewmembers when planning block.</p> <p>Safety must include:</p> <ul style="list-style-type: none"> • Positioning of machines and equipment, level of first aid and supplies 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">• Block maps• How to place equipment in block• General considerations when planning a block• What information to get from Supervisor• Sequencing to avoid phase congestions• Types of trespass• Hazards related to block planning• Environmental considerations when planning block• Safety requirements for crew members.
Summary of Skills to be Assessed	<p>For this unit a competent worker must be able to:</p> <ul style="list-style-type: none">• Read and apply block map• Place equipment for safety and job requirements• Coordinate with supervisor.



Unit	1016
Title	Plan and Manage Day to Day Activities for Yarding
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Planning Day to Day Activities in the Block; and • Managing Day to Day Activities in the Block.
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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 units related to Yarding.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Hook Tender.
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Element of Competence	Competence Outcomes
<p>1. Planning Day to Day Activities in the Block</p>	<p>1.1. Demonstrate ability to assess tools, supplies and equipment needs in accordance with the workday activities.</p> <p>Tools, supplies and equipment must include:</p> <ul style="list-style-type: none"> • Lines, tools hardware, supplies, chokers, straps, knobs, chainsaw, fuel, radios. <p>1.2. Demonstrate ability to complete a site inspection and daily hazard assessment in accordance with the block requirements.</p> <p>1.3. Demonstrate ability to organize crew in accordance with the workday activities.</p> <p>1.4. Demonstrate ability to monitor weather and adjust planning as required.</p> <p>1.5. Demonstrate ability to schedule additional phases in accordance with the job requirements.</p>
<p>2. Managing Day to Day Activities in the Block</p>	<p>2.1. Demonstrate ability to manage crew in accordance with the day's activities.</p> <p>Manage must include:</p> <ul style="list-style-type: none"> • Professional in communication, giving clear direction. Thinking ahead, mentoring, constructive feedback, control change and communicating change.



Summary of Knowledge and Skills

<p>Summary of Knowledge to be Assessed</p>	<p>For this unit, a competent worker must understand:</p> <p>Plan Day to Day Activities</p> <ul style="list-style-type: none"> • Site inspection • Equipment needs assessment (lines, tools, hardware, supplies) • Daily hazard assessment • Crew requirements • First aid • Weather monitoring • Daily tailgate meeting • Scheduling of additional phases. <p>Manage Day to Day Activities (Man in Charge)</p> <ul style="list-style-type: none"> • Conflict resolution • Contingency skills • Leadership skills • Knowledge of levels of authority • Coordination of the worksite (directing of crew) • Management of the crew.
<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"> • Assess tools, supplies and equipment required • Complete site inspections • Organize crew • Monitor weather • Adjust planning as required • Communicate changed • Schedule additional phases • Manage crew.



Unit	1017
Title	Describe and Operate Tower
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Pre and Post Inspection and Maintenance of a Tower; and • Operate Tower.
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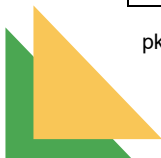
Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<p>This unit has the following prerequisites:</p> <ul style="list-style-type: none"> • All occupational skills and rigging units related to Yarding.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Tower Operator.
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Element of Competence	Competence Outcomes
1. Pre and Post Inspection and Maintenance of a Tower	<p>1.1. Demonstrate ability to conduct a pre-operational inspection of a tower in accordance with company policy and procedures.</p> <p>Pre-operational inspection may include:</p> <ul style="list-style-type: none"> • Boom and gantry, counterweight clearance, wire rope, pendants/topping line, lattice booms, grapple, machine deck, operator's cab, ring gear, carriers, fluids, and belts. <p>1.2. Demonstrate ability to conduct a post-operational inspection of a tower in accordance with company policy and procedures.</p> <p>1.3. Demonstrate ability to lock out equipment in accordance with manufacturers' specifications and company procedures.</p> <p>1.4. Describe how to undertake basic maintenance of a tower in accordance with company policy and procedures.</p> <p>1.5. Demonstrate that signaling devices on tower are working properly in accordance with regulations.</p> <p>1.6. Demonstrate ability to arrive at work on time, with PPE maintained, in working order.</p> <p>1.7. Demonstrate ability to use PPE consistently throughout the day.</p>
2. Operate Tower	<p>2.1. Demonstrate ability to yard logs and pile/deck logs in accordance with block requirements and manufacturers' specifications.</p> <p>Yard logs and pile/deck logs must include:</p> <ul style="list-style-type: none"> • Plan and prepare for long landing • Stable piling • Spotting the grapple • Not in front of yourself • No logs sideways • Crew in the clear • Working draws and ridges • Smooth operations • Machine at safe angles. <p>2.2. Demonstrate ability to change roads in accordance with block</p>



Element of Competence	Competence Outcomes
	requirements and manufacturers' specifications. 2.3. Demonstrate ability to operate tower smoothly in accordance with block requirements and manufacturers' specifications. 2.4. Demonstrate ability to spool lines. 2.5. Demonstrate ability to run guylines.



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"> • Safety responsibilities of a Tower Operator • Operation of tower including: <ul style="list-style-type: none"> ○ Yard logs ○ Change roads ○ Pile logs ○ Smooth operation of tower ○ Line care (spooling of lines, records) ○ Running guylines ○ Interaction with other equipment in the landing ○ Signals related to tower operation ○ Pre-operational inspection (start up, warm up) ○ Post operational inspection (drain air tank) ○ Perform basic maintenance on tower <ul style="list-style-type: none"> ▪ Greasing ▪ Brake Set up • Minor Repairs.
<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"> • Conduct pre-operation inspections • Conduct post operation inspections • Lock out equipment • Conduct basic maintenance • Ensure signals are working • Yard logs • Pile/deck logs • Change roads • Operate Tower to manufacturers' specifications • Spool lines • Run guylines.



Unit	1018
Title	Set Up and Take Down Tower
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Tower Maintenance; • Set Up and Take Down of Tower.
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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 and rigging units related to Yarding • 1017 – Operate Tower.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Tower Operator.
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Element of Competence	Competence Outcomes
1. Maintain Tower	<p>1.1. Demonstrate ability to lock out equipment in accordance with manufacturers' specifications.</p> <p>1.2. Demonstrate ability to <i>maintain tower</i> in accordance with manufacturers' specifications. <i>This may occur during set up or take down of tower.</i></p> <p><i>Maintain tower</i> must include:</p> <ul style="list-style-type: none"> • Inspection of sheaves (mainline, hall back, skyline) • Grease tower • Safety lines and guyline blocks.
2. Set Up and Take Down Tower	<p>2.1. Describe and demonstrate ability to <i>plan landing</i> in accordance with block map and company policy and procedure.</p> <p><i>Plan landing</i> must include:</p> <ul style="list-style-type: none"> • Stable pad, rigging math, access, position in landing. <p>2.2. Describe and demonstrate ability to set up guyline in the <i>correct position</i> and in a safe manner to assist in raising the tower in accordance with WorkSafeBC guyline regulations and operator's manual.</p> <p><i>Correct position</i> must include:</p> <ul style="list-style-type: none"> • Positioning, no side wash, running clear. <p>2.3. Describe and demonstrate ability to ability to <i>raise tower</i> in accordance with manufacturers' specification and the surrounding environment.</p> <p><i>Raise tower</i> may include:</p> <ul style="list-style-type: none"> • First stage hydraulic ram, first stage heal blocks.
3. Take Down Tower	<p>3.1. Describe and demonstrate ability to ability to <i>take down tower</i> in accordance with manufacturers' specification.</p> <p><i>Take tower</i> may include:</p> <ul style="list-style-type: none"> • First stage hydraulic ram, first stage heal blocks.



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"> • Planning of landing (stable pad, math, access, position in landing) • Position guylines to raise/lower tower • Process of raising tower (first stage hydraulic ram, first stage heel blocks). • How to position guylines to lower tower (math, in right place, secure) • Hand, voice and whistle signals • How to run lines in (yarding lines) • Process of lowering tower • How to secure equipment. <p>Maintenance Tools including:</p> <ul style="list-style-type: none"> • Combination wrenches • Socket sets • Screw drivers • Specialty tools such as air greasers, grease guns, track jacks • Pliers • Pipe wrenches • Hammers (including soft hammer).
<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"> • Lock out equipment • Maintain tower • Plan landing • Set up guylines in correct position • Raise tower safely • Take down tower



Unit	1020
Title	Move Tower
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Route Planning; • Risk Assessment; • On/Off Low Bed; and • Inspect 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 and rigging units related to Yarding. • 1017 – Operate Tower.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Tower Operator.
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Element of Competence	Competence Outcomes
1. Route Planning	<p>1.1. Demonstrate ability to plan route in accordance with route requirements.</p> <p>Plan route may include:</p> <ul style="list-style-type: none"> • Wheel machine, track machine. <p>Plan route must include:</p> <ul style="list-style-type: none"> • Width of road, radius of turns, traffic, power lines, railway and overpasses, overhead obstructions. <p>1.2. Explain which equipment is best for the job in accordance with job requirements.</p> <p>Equipment may include:</p> <ul style="list-style-type: none"> • Wheel machine, track machine. <p>Equipment must include:</p> <ul style="list-style-type: none"> • Power train capabilities.
2. Risk Assessment	<p>2.1. Describe and demonstrate ability to do a risk assessment of planned route.</p> <p>Risk assessment must include:</p> <ul style="list-style-type: none"> • Snub and pull, co-efficient of traction.
3. On/Off Low Bed	<p>3.1. Describe and demonstrate ability to to load and unload machine off a low bed including signals.</p> <p>Machine may include:</p> <ul style="list-style-type: none"> • Wheel machine, track machine. <p>Signals must include</p> <ul style="list-style-type: none"> • Identify spotter and take signals.
4. Inspect Equipment	<p>4.1. Demonstrate ability to inspect equipment to ensure machine is secure on low bed for trip.</p> <p>Secure must include:</p>



Element of Competence	Competence Outcomes
	<ul style="list-style-type: none"> • Rigging, boom and grapple placement on low bed. <p>4.2. Demonstrate ability to check function of brakes and demonstrate knowledge of capabilities of brakes on equipment in accordance with manufacturers' specifications.</p>
<p>5. Communication with Crew</p>	<p>5.1. Demonstrate ability to communicate with crew to facilitate the safe movement of tower including signals.</p> <p>Communicate may include:</p> <ul style="list-style-type: none"> • Communicate with crew (spotter, pilot car and between operator snub or pull). <p>Signals may include:</p> <ul style="list-style-type: none"> • Hand signals, voice signals, radio or whistle signals.



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"> • On and off low bed (loading) tight guylines, bridle up guylines, tied down (range is rubber mount or track machine) • Risk assessment (snub and pull-on grade) (assisted by another piece of equipment) • Inspection (secure for trip) • Powertrain capabilities of relevant equipment • Braking capabilities of equipment • Braking components • Brake set up or test of equipment • Route planning.
<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"> • Plan route • Conduct risk assessment • Load and unload machine • Use signals for moving • Inspect equipment to ensure secure • Check brake functions • Communicate with crew for purpose of moving.



Yarding 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. • Training audit/competency check tool is available for this unit. • Competency conversations are available for this unit.
<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	1021
Title	Describe and Operate Grapple Yarder
Document	Unit of Competency

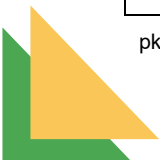
Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Pre Work Activities; • Operate Grapple Yarder; and • Complete Tasks.
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Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform 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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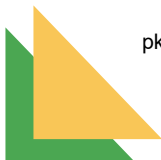
Prerequisite(s)	<p>This unit has the following prerequisites:</p> <ul style="list-style-type: none"> • All occupational skills and rigging units related to Yarding.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Grapple Yarder Operator.
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Element of Competence	Competence Outcomes
1. Pre-Work Activities	<p>1.1. Demonstrate ability to use equipment manuals and specifications to determine safe operating procedures and operational restrictions of Grapple Yarders.</p> <p>1.2. Describe hazards related to operating Grapple Yarders and the means to control them.</p> <p>1.3. Demonstrate ability to inspect cables and guylines.</p> <p>1.4. Demonstrate ability to determine block/slope orientation, soil conditions, and limitations.</p> <p>Block/slope orientation, soil conditions, and limitations must include:</p> <ul style="list-style-type: none"> • Type of terrain, log landing areas, corridors, cross slope movement of lines, windthrow, riparian management zones, trespass. <p>1.5. Demonstrate ability to develop a grapple yarder site in partnership with the Hook Tender.</p> <p>Develop a grapple yarder site may include:</p> <ul style="list-style-type: none"> • Removing danger trees, avoiding natural obstacles, processing and loading considerations, never yarding straight downhill in machine of steep grounds where runaway logs can hit machine, road layout, suitable anchors, notch and secure stump, set correct guylines. <p>1.6. Demonstrate ability to perform pre-start equipment checks.</p> <p>1.7. Demonstrate ability to perform start up procedures</p> <p>Start up procedures must include:</p> <ul style="list-style-type: none"> • Check gauges, warning systems, start and warm up hydraulics, transmission, lights, wipers, seat belt, lock out, parking brake, all controls and major systems. <p>1.8. Demonstrate that signaling devices on a grapple yarder are</p> <p>1.9. working properly in accordance with regulation.</p>



Element of Competence	Competence Outcomes
2. Operate Grapple Yarder	<p>2.1. Identify components of a grapple yarder.</p> <p>2.2. Demonstrate ability to operate grapple yarder in accordance with block requirements and manufacturers' specifications.</p> <p>Operate grapple yarder must include:</p> <ul style="list-style-type: none"> • Smooth operation, moving in the block, working around other equipment and workers, monitor performance of equipment, ergonomics, signaling. <p>2.3. Demonstrate ability to yard logs/pile logs in accordance with block requirements and manufacturers' specifications.</p> <p>Yard logs/pile logs must include:</p> <ul style="list-style-type: none"> • Plan and prepare for log landing • Stable piling • Spotting the grapple • Logs piled in lay • Crew in the clear • Working draws and ridges • Smooth operation of machine. <p>2.4. Demonstrate ability to change roads in accordance with block requirements and manufacturers' specifications.</p> <p>2.5. Demonstrate ability to spool lines.</p> <p>2.6. Demonstrate ability to run guylines.</p>
3. Complete Tasks	<p>3.1. Demonstrate ability to perform shut down procedures.</p> <p>Shut down procedures may include:</p> <ul style="list-style-type: none"> • Grapple to the ground, safe parking position, brakes applied, position for ease of access, cool down, before shut down, walk around and general check, secure machine. <p>3.2. Demonstrate ability to perform daily maintenance tasks.</p> <p>Daily maintenance task must include:</p> <ul style="list-style-type: none"> • Lubrication systems, greasing air intake systems, air system reservoir, water separator, fuel filters, inspect



Element of Competence	Competence Outcomes
	<p style="text-align: center;">and clean components, housekeeping.</p> <p>3.3. Demonstrate ability to perform basic repairs and maintenance on a Grapple Yarder.</p> <p>Basic repairs may include</p> <ul style="list-style-type: none"> • Change hydraulic hoses, troubleshooting, fuel filter, adjust belt tension, oil change, batter terminals, adjust track tension, fluid levels.



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"> • Hazards related to operating a grapple yarder and the means to control them • How to use equipment manuals including safe operating procedures and Grapple Yarder limitations • Basic maintenance and repairs on a Grapple Yarder.
<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"> • Conduct pre-start equipment checks • Conduct pre-start up procedures • Operate a Grapple Yarder • Yard logs/ pile logs • Change roads • Spool lines • Run guylines • Move Grapple Yarder in the block • Monitor equipment during operation • Conduct shut-down procedures • Perform daily maintenance • Install, use and maintain attachments.



Yarding 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. • Training audit/competency check tool is available for this unit. • Competency conversations are available for this unit.
<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	1022
Title	Move Equipment
Document	Unit of Competency

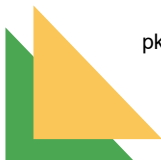
Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Route Planning; • Risk Assessment; • On/Off Low Bed; and • Inspect Equipment.
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Regulatory Requirements	<p>It is always the responsibility of any person using these materials 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 and rigging units related to Yarding. • 1021 – Describe and Operate Grapple Yarder.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Grapple Yarder Operator.
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Element of Competence	Competence Outcomes
1. Route Planning	<p>1.1. Demonstrate ability to plan route (between blocks) in accordance with route requirements.</p> <p>Plan route may include:</p> <ul style="list-style-type: none"> • Wheel machine, track machine. <p>Plan route must include:</p> <ul style="list-style-type: none"> • Width of road, radius of turns, traffic, power lines, railway and overpasses, overhead obstructions. <p>1.2. Identify which equipment is best for the job in accordance with job requirements.</p> <p>Equipment may include:</p> <ul style="list-style-type: none"> • Wheel machine, track machine <p>Equipment must include:</p> <ul style="list-style-type: none"> • Power train capabilities.
2. Risk Assessment	<p>2.1. Describe and demonstrate ability to do a risk assessment of planned route.</p> <p>Risk assessment must include:</p> <ul style="list-style-type: none"> • Snub and pull, co-efficient of traction.
3. On/Off Low Bed	<p>3.1. Describe and demonstrate ability to load and unload machine off a low bed including signals.</p> <p>Machine may include:</p> <ul style="list-style-type: none"> • Wheel machine, track machine.
4. Inspect Equipment	<p>4.1. Demonstrate ability to inspect equipment to ensure machine is secure on low bed for trip.</p> <p>Secure must include:</p> <ul style="list-style-type: none"> • Rigging, boom and grapple placement on low bed. <p>4.2. Explain the capabilities of brakes and the ability to check function of brakes on equipment in accordance with manufacturers' specifications.</p> <p>4.3. Demonstrate ability to lock out equipment in accordance with</p>



Element of Competence	Competence Outcomes
	manufacturers' specifications.
5. Communication with Crew	<p>5.1. Demonstrate ability to communicate with crew to facilitate the safe movement of grapple yarder including signals.</p> <p>Communicate may include:</p> <ul style="list-style-type: none"> • Communicate with crew (spotter, pilot car and between operator snub or pull).



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">• Load grapple yarder on and off low bed• Risk assessment (snub or pull)• Boom and grapple placement on low bed• Route planning including hazards• Braking capabilities of equipment• Slope percentages• Self-walking• Signals• Inspecting 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">• Plan route for moving• Conduct risk assessments• Safely load and unload machine from low bed• Inspect equipment so machine is secure• Check functions of brakes• Lock out equipment• Communicate with crew to facilitate movement.



Yarding 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. • Training audit/competency check tool is available for this unit. • Competency conversations are available for this unit.
<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	1019
Title	Apply General Yarding Skills
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Safety; • Hazards; and • Communication. • This is an ability to unit that supports practical assessment.
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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 units and rigging units except 1014.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Chokerperson • Rigging Slinger • Landing/Utilityperson • Hook Tender.
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Element of Competence	Competence Outcomes
<p>1. Safety</p>	<p>1.1. Describe and demonstrate ability to attend and participate in pre-work meetings.</p> <p>1.2. Demonstrate ability to consistently use PPE throughout the work day.</p> <p>1.3. Demonstrate ability to use proper ergonomics for the job.</p> <p>1.4. Demonstrate ability to walk safely throughout the work day.</p> <p>1.5. Demonstrate ability to conduct work activities in an ergonomically correct position.</p> <p>1.6. Describe and demonstrate ability to support road changes within the block.</p> <p>1.7. Demonstrate knowledge of the importance of training.</p>
<p>2. Hazards</p>	<p>2.1. Demonstrate the ability to identify safe zones and hazard zones within the block.</p>
<p>3. Communication</p>	<p>3.1. Demonstrate ability to communicate hazards to other workers so the message is received and understood.</p> <p>3.2. Demonstrate ability to use signals required for the job.</p>



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">• Pre-work meetings• Road changes• Training.
Summary of Skills to be Assessed	For this unit a competent worker must be able to: <ul style="list-style-type: none">• Arrive on time• PPE in working order• Attend and participate pre-work meetings• Consistently use PPE during the day• Use proper ergonomics• R-E-C hazards in the yarding environment• Identify safe zones and hazard zones• Communicate hazards



Yarding 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. • Training audit/competency check tool is available for this unit. • Competency conversations are available for this unit.
<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	1023
Title	Apply Chokerperson and Rigging Slinger Skills
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Prepare for Work; • Communication; • Safety Responsibilities of a Chokerperson; and • Choking.
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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 and rigging units related to Yarding except 1014.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Chokerperson • Rigging Slinger.
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Element of Competence	Competence Outcomes
1. Safety Responsibilities	<p>1.1. Demonstrate ability to take instructions from others in accordance with job requirements</p> <p>1.2. Demonstrate ability to constantly look for hazards specific to the job within work area and control the hazard.</p> <p>Hazards specific to the job may include:</p> <ul style="list-style-type: none"> • Unstable logs, upending logs, siwashes, flying debris. <p>Controls may include:</p> <ul style="list-style-type: none"> • Not under lines or butt rigging, position in relation to the rigging slinger, facing the turn.
2. Choking and Rigging	<p>2.1. Demonstrate ability to undertake a basic assessment of logs ensuring the log is stable.</p> <p>2.2. Demonstrate ability to choke log in accordance with job requirements.</p> <p>2.3. Demonstrate ability to control rigging including spotting the rigging, picking the turn, and identifying hazards.</p> <p>2.4. Demonstrate ability to think and plan ahead in accordance with block requirements.</p>



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"> • Ready for work • PPE in working condition • Tailgate or communication with Hook Tender • Go into bush with rigging slinger • Walking in bush • Understanding communication • Understanding safe zone • Not under butt rigging • Position in relation to the rigging slinger (behind) • Always facing the turn (don't turn your back on activity) • Basic assessment skill - log to be choked is stable • Choke log • Communicate hazards back to Rigging Slinger.
<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"> • Arrive at work prepared, on time, PPE in working order • Use signals required for the job • Communicate professionally with crew • Take instructions from others • Constantly assess for hazards • Undertake basic assessment of logs for stability • Choke logs correctly.



General Forestry 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. • Training audit/competency check tool is available for this unit. • Competency conversations are available for this unit.
<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	1025
Title	Apply Landing/Utilityperson Skills
Document	Unit of Competency

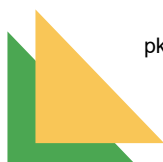
Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Safety Responsibilities; and • Job responsibilities for a Landing/Utilityperson.
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Regulatory Requirements	<p>It is always the responsibility of any person using these materials 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 and rigging units related to Yarding except 1014.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Landing/Utilityperson.
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Element of Competence	Competence Outcomes
1. Safety Responsibilities of a Landing/Utilityperson	1.1. Demonstrate ability to constantly look for and communicate hazards within work area. 1.2. Describe controls within the work zone including cone of danger.
2. Job Responsibilities of a Landing/Utilityperson	2.1. Demonstrate ability for good housekeeping in accordance with job requirements. Good housekeeping may include: <ul style="list-style-type: none"> • Work area clean, blocks, straps, chokers in working order. 2.2. Demonstrate ability to inspect rigging and tools before use. 2.3. Demonstrate ability to undo chokers in a safe manner. 2.4. Describe the proper position of the guylines on stumps (Utilityperson only). 2.5. Demonstrate ability to select, notch and prep guyline stumps. 2.6. Demonstrate ability to spot the rigging (Utilityperson only). 2.7. Demonstrate ability to check guylines often when yarding operations are in progress. 2.8. Demonstrate ability to do basic splices. Basic splices may include: <ul style="list-style-type: none"> • Strawlines, Logger's Eye, Farmer's Eye, Molly Hogans.



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">• Controls in the work area including cone of danger• Proper position of guylines on stumps
Summary of Skills to be Assessed	For this unit a competent worker must be able to: <ul style="list-style-type: none">• Look for hazards in the work areas• Have good housekeeping skills• Inspect rigging and tools• Undo chokers safely• Select notch and prep guyline• Spot the rigging• Check guylines often• Do basic splices



Yarding 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. • Training audit/competency check tool is available for this unit. • Competency conversations are available for this unit.
<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	1026
Title	Apply Hook Tender Skills
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Safety Responsibilities of a Hook Tender; • Job Responsibilities of a Hook Tender; and • Supervision, Training, and Leadership.
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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, rigging and planning units related to Yarding.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Hook Tender
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Element of Competence	Competence Outcomes
1. Safety Responsibilities of a Hook Tender	1.1. Demonstrate ability to conduct “pre-work meetings” and clearly communicate plan for the day and hazard assessment so that the message is received and understood. 1.2. Demonstrate ability to inspect worksite prior to starting work for hazards and demonstrate knowledge of how to eliminate or control them. 1.3. Demonstrate ability to ensure landings are organized and clear of unnecessary debris.
2. Job Responsibilities of a Hook Tender	2.1. Describe yarding systems and functions of equipment. Yarding systems may include: <ul style="list-style-type: none"> • Manual/motorized drop line carriages. 2.2. Demonstrate ability to control rigging including spotting rigging, picking the turn, and identifying the hazards. 2.3. Describe and demonstrate ability to select and notch and prep tail hold and anchors and hang the block for next road. 2.4. Demonstrate ability to check guylines periodically while yarder is in operation (Tower only). 2.5. Describe and demonstrate ability to ensure lines are clear when rigging comes out of landing.
3. Supervision, Training and Leadership	3.1. Demonstrate ability to supervise crew in a professional manner in accordance with job requirements. 3.2. Demonstrate ability to think and plan ahead in accordance with block requirements. 3.3. Demonstrate ability to train crew as required in accordance with job requirements.



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"> • Responsibilities for safety • Recognize, evaluate and control hazards • Ready for work • Pre-work meeting • Advanced rigging • Communication including signals • Controls within work area • Yarding systems • Road changes.
<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"> • Conduct pre-work meetings • Communicate hazards back to crew • Constantly conduct hazard assessments • Organize and keep landings clear • Control rigging • Spot rigging • Pick the turn • Select, notch and prep tail hold and anchors • Hang block for next road



Yarding 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. • Training audit/competency check tool is available for this unit. • Competency conversations are available for this unit.
<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	1030
Title	Climb Trees for Rigging
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Elevated Support; • Guylines; • Planning; • Prepare to Climb; • Climb Trees for Rigging; • Topping Trees; • Tail Holds; and • Intermediate Support Trees.
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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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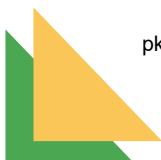
Prerequisite(s)	<p>This unit has the following prerequisites:</p> <ul style="list-style-type: none"> • There are no prerequisites for this unit.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • All forest industry occupations as required.
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Element of Competence	Competence Outcomes
1. Elevated Support	<p>1.1. Describe the benefits of using an elevated support.</p> <p>1.2. Describe types of elevated support.</p> <p>Types must include:</p> <ul style="list-style-type: none"> • Single tree backspar, doubletree, leaning tree, mid span <p>1.3. Describe the forces on support tree.</p> <p>Forces must include:</p> <ul style="list-style-type: none"> • Downward force, force imposed by skyline, forces on a tail hold, forces on an intermediate support, forces from side blocking, forces on tree dependent on yarding uphill or downhill
2. Guylines	<p>2.1. Describe guyline requirements for intermediate supports and Backspar's.</p>
3. Planning	<p>3.1. Describe planning requirements before climbing a tree for rigging.</p> <p>Planning requirements must include:</p> <ul style="list-style-type: none"> • System compatibility, selecting support trees of suitable size and position, selecting suitable anchors, yarding direction, timber size, deflection • Safety plan to rescue climber (include second climber nearby) <p>3.2. Describe climbing equipment to climb a tree for rigging</p> <p>Climbing equipment must include:</p> <ul style="list-style-type: none"> • Climbing equipment (X2), climbing harness, climbing rope, climbing irons • PPE – Hard hat with chin strap, gloves, face screen <p>3.3. Describe general equipment requirements to climb a tree for rigging.</p> <p>Equipment requirements must include:</p>



Element of Competence	Competence Outcomes
	<ul style="list-style-type: none"> Tree blocks, guylines, support jack, first aid kit, block straps, lightweight pass rope, pass block and strap, wire rope clamps for guylines, wedges, hammer, means of communication, topping chainsaw, safety chain, wrench.
4. Prepare to Climb	<p>4.1. Describe and demonstrate ability to inspect equipment for defects.</p> <p>4.2. Describe and demonstrate ability to prepare the chainsaw. Prepare the chainsaw must include:</p> <ul style="list-style-type: none"> Check chainsaw, fuel and oil, approved cold start method, warm up and switch off, set the chain brake, tie the light rope to rear control of chainsaw. <p>4.3. Describe and demonstrate ability to put on climbing equipment. Put on climbing equipment must include:</p> <ul style="list-style-type: none"> Attach climbing spurs to legs, remove instep caulks if required, spur adjusted to size of climber.
5. Climb Trees for Rigging	<p>5.1. Describe and demonstrate ability to climb trees in accordance with best practices. Climb trees must include:</p> <ul style="list-style-type: none"> Rope around tree kept between waist and shoulders of climber, spurs driven in, rope is adjusted as per size of tree while climbing, lengthen or shorten rope as needed when ascending or descending <p>5.2. Explain general safety guidelines for working in a tree. General safety guidelines when working in a tree must include:</p> <ul style="list-style-type: none"> Do not climb in windy or hazardous conditions, have qualified assistance



Element of Competence	Competence Outcomes
	<ul style="list-style-type: none"> • Mental and physical well-being for task <p>5.3. Explain general chainsaw guidelines when working a tree.</p> <p>General chainsaw guidelines must include:</p> <ul style="list-style-type: none"> • Cut limbs from safe position, lower chainsaw into rope before climbing to reach another limb, do not over extend, do not get moving bar and chain between person and tree, set spurs with one foot slightly higher than other, adjust climbing rope to keep self in comfortable and safe position close to tree.
6. Topping Trees	<p>6.1. Explain why it is necessary to top a support tree.</p> <p>6.2. Demonstrate knowledge of general guidelines for topping trees.</p> <p>General guideline for topping tree:</p> <ul style="list-style-type: none"> • Don't top trees when wind or other conditions create a hazard, use correct felling techniques, only trained persons conduct activity <p>6.3. Describe and demonstrate ability to top trees in accordance with best practices.</p> <p>Top Trees must include:</p> <ul style="list-style-type: none"> • Determine the felling direction for the treetop, ensure no obstructions that the top could hit as it falls, wrap the safety chain around the tree just below where it will be topped, get into a safe and comfortable position, put in a Humboldt, begin the back cut, complete back cut, as tree begins to fall step down as step if possible one step behind direction of the falling top and place hand against tree pushing away to hold in position as tree stem moves after top falls off.



Element of Competence	Competence Outcomes
7. Tail Holds	<p>7.1. Demonstrate ability to locate anchors for tail hold. Locate anchors for tail hold must include:</p> <ul style="list-style-type: none"> • Locate on ground first, verify in tree. <p>7.2. Describe equipment required for tail hold. Equipment required for tail hold must include:</p> <ul style="list-style-type: none"> • Blocks of sufficient size for the haul back, straps, chainsaw <p>Equipment required for tail hold may include:</p> <ul style="list-style-type: none"> • Twisters <p>7.3. Demonstrate ability to rig a tail hold. Rig a tail hold must include:</p> <ul style="list-style-type: none"> • Preliminary steps, preparing the skyline block straps, hanging the skyline block straps, preparing the skyline block, hanging the skyline block, hanging the guylines and final steps.
8. Intermediate Support Trees	<p>8.1. Explain which equipment required for intermediate support trees. Equipment required must include:</p> <ul style="list-style-type: none"> • Pass block and strap, lightweight pass rope, intermediate support jack, intermediate support line, support line blocks, strap for intermediate support line block, minimum of two guylines, sundries. <p>8.2. Describe and demonstrate ability to locate anchors for intermediate support trees. Locate anchors for intermediate support trees must include:</p> <ul style="list-style-type: none"> • Determining forces on tree, direction of pull, size of timber, size of anchors, condition of ground. <p>8.3. Demonstrate ability to rig a single intermediate support.</p>



Element of Competence	Competence Outcomes
	<p>8.4. Demonstrate ability to prepare the support line block stops and blocks.</p> <p>8.5. Demonstrate ability to hang the support line block.</p> <p>8.6. Demonstrate ability to hang guylines.</p> <p>8.7. Demonstrate ability to support jack and raising the skyline.</p>



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">• Suspension trauma• Emergency response plan for suspended workers• PPE required for job• Rigging equipment required for job (including belt and spurs)• Inspection of climbing equipment• Proper fit of climbing equipment• Hanging blocks and stringing straw line• Mathematics of positioning guylines (if required)• Slope considerations• Yarding distance/angles and machine capabilities• Understanding of deflection• Understanding of condition of trees (roots, damage etc.). <p>Elevated Rigging Tree Hazards and Controls</p> <ul style="list-style-type: none">• Equipment failure• Spiking yourself with the climbing spurs• Unstable climbing and working position up the tree• Turning upside down in the harness• Falling objects• Abrasions to hands• Chainsaw work• Tree movement as top falls• Types of elevated support• Forces on a support tree• Forces on a tail hold• Forces on intermediate support• Guyline requirements for tail hold
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	<ul style="list-style-type: none"> • Guyline requirements for intermediate support • Planning requirements • Selecting support trees • Selecting suitable anchors • Getting ready to climb • Climbing a tree • Working in a tree • Topping trees • Locating anchors for a tail hold • Equipment for tail hold • Rigging a tail hold.
<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 equipment required for rigging trees • Inspect and maintain chainsaw • Attach climbing spurs to legs • Climb trees safely • Top trees safely • Locate anchors for tail hold • Rig tail hold • Locate anchors for intermediate support trees • Rig a single intermediate support • Prepare the support line block stops and blocks • Support the line block • Hang guylines • Support jack and raising the skyline.



Yarding Assessment Guide

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<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. • Meeting evidence requirements for this unit.
<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	1031
Title	Describe and Operate Backspar
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Pre-work activities related to operating a Backspar; • Operating Backspars; • Completing tasks post operations; and • Backspar attachments.
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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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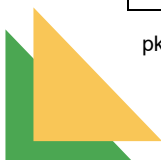
Prerequisite(s)	<p>This unit has the following prerequisites:</p> <ul style="list-style-type: none"> • All occupational skills and rigging units related to Yarding.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Backspar Operator
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Element of Competence	Competence Outcomes
1. Pre-work Activities	<p>1.1. Demonstrate ability to use equipment manuals and specifications to determine safe operating procedures and operational restrictions of a Backspar.</p> <p>1.2. Demonstrate ability to read harvesting map to plan days activities including yarding plan.</p> <p>Yarding plan must include:</p> <ul style="list-style-type: none"> • Identify decking locations, hoe trail locations, understand terrain and soil conditions, including drainage patterns, adjust plan as required. • Identify site sensitive areas and no-go zones <p>1.3. Recognize hazards related to operating a Backspar and means to control them.</p> <p>Hazards related to operating a Backspar may include:</p> <ul style="list-style-type: none"> • Unexpected cable movement, machine failure, movement of Backspar while yarding, loss of control during moving of machine, bights and siwashes, communication failure, unstable soil, slips and falls, slippery machine surfaces. • Other workers in work area. • D-energize and lockout the machine. <p>1.4. Demonstrate ability to perform pre-start equipment checks.</p> <p>Pre-start equipment checks must include:</p> <ul style="list-style-type: none"> • Check fluid levels • Check – guards, windows, doors, undercarriage, and emergency escape routes. <p>1.5. Demonstrate ability to perform startup procedures.</p> <p>Startup procedures must include:</p> <ul style="list-style-type: none"> • Gauges, warning systems, lights, wipers, seat belt, lock out device, loose items in cab secured, fire extinguisher or suppression system, 2-way radio, horn • Function test on major systems – boom up and down, stick in and out, swing right and left, travel forward and reverse, maintain 3-point contact



Element of Competence	Competence Outcomes
	<ul style="list-style-type: none"> • Attachment - fair lead and gantry (damage and fatigue).
<p>2. Operate Backspar</p>	<p>2.1. Demonstrate ability to determine machine position within block and on slope including working within machine operating limits throughout work activity.</p> <p>2.2. Demonstrate ability to operate a Backspar. Operate a Backspar must include:</p> <ul style="list-style-type: none"> • Moving Backspar with rigging as low as possible, line slack with boom and stock in correct position to enhance stability • Communicate with yarder engineer • Construct Backspar trails safely to meet requirements • Machine at appropriate angle for yarding, stick greater than 90 degrees and bucket in secure position. <p>2.3. Demonstrate ability to monitor performance of equipment during operation.</p>
<p>3. Complete Tasks</p>	<p>3.1. Demonstrate ability to perform shut down procedures and record deficiencies/issues for mechanic. Shut down procedures must include:</p> <ul style="list-style-type: none"> • Safe parking position and lower all attachments, position for ease of access, level position for fluid checks, cool down before shut down, walk around and general check, secure machine, maintain 3-point contact. <p>3.2. Demonstrate ability to perform daily maintenance tasks. Daily maintenance tasks must include:</p> <ul style="list-style-type: none"> • Lubrication systems, air intake systems, air system reservoir, fuel tank sump, water separator, fuel filters, inspect and clean components, housekeeping, attachments or anchors. <p>3.3. Explain basic repairs and maintenance on a log loader. Basic repairs must include:</p> <ul style="list-style-type: none"> • Hydraulic hoses, fuel filter, engine oil change, lube filter, adjust belt tension, battery terminals, fluids, adjust track tension.



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">• How to use equipment/owner manuals• How to read harvesting maps and yarding plans• Hazards related to operating a Backspar and the means to control them• Basic maintenance and repairs on a Backspar• Ergonomics related to job function.
Summary of Skills to be Assessed	<ul style="list-style-type: none">• For this unit a competent worker must be able to:• Use equipment manuals• Perform pre-start equipment checks• Perform pre – start up procedures• Operate a Backspar• Monitor equipment during operations• Perform shut down procedures• Perform basic repairs.



Yarding Assessment Guide

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<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	1032
Title	Apply Advanced Rigging Techniques
Document	Unit of Competency

Description	<p>This unit is about:</p> <ul style="list-style-type: none"> • Cutting Wire Rope; • Splicing; • Knots and Threading; and • File Spikes.
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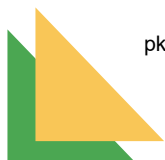
Regulatory Requirements	<p>It is always the responsibility of any person using these materials to inform him/herself about the Occupational Health and Safety Regulations related to the work being conducted. A full list of OHSR related to this unit can be found in the relevant package.</p>
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Prerequisite(s)	<p>This unit has the following prerequisites:</p> <ul style="list-style-type: none"> • There are no prerequisites for this unit.
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Occupations	<p>This unit is a component of the following occupations:</p> <ul style="list-style-type: none"> • Hook Tenders • Utilityperson.
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Element of Competence	Competence Outcomes
1. Cutting Wire Rope	1.1. Describe and demonstrate ability to cut wire rope using the correct tools and PPE in accordance with best practice.
2. Splicing	2.1. Describe and demonstrate ability to complete the Logger's Eye Splice in accordance with the WorkSafeBC Splicing Guide. 2.2. Describe and demonstrate ability to complete the Short Long Splice in accordance with the WorkSafeBC Splicing Guide. 2.3. Describe and demonstrate ability to complete the Passing Splice in accordance with the WorkSafeBC Splicing Guide. 2.4. Describe and demonstrate ability to complete the Knotted Strawline Connection splice in accordance with the WorkSafeBC Splicing Guide. 2.5. Describe and demonstrate ability to complete the Strawline Spliced Connector splice in accordance with the WorkSafeBC Splicing Guide. 2.6. Describe and demonstrate ability to complete the Farmer's Eye Splice in accordance with the WorkSafeBC Splicing Guide. 2.7. Describe and demonstrate ability to complete the Molly Hogan connection in accordance with the WorkSafeBC Splicing Guide. 2.8. Demonstrate ability to complete the "Molly Hogan" for securing pins in accordance with the WorkSafeBC Splicing Guide.
3. Knots and Threading	3.1. Describe and demonstrate ability to complete the General Purpose Knot in accordance with the WorkSafeBC Splicing Guide. 3.2. Describe and demonstrate ability to complete the Cat's Paw Knot in accordance with the WorkSafeBC Splicing Guide. 3.3. Describe and demonstrate ability to complete the Double Cat's Paw in accordance with the WorkSafeBC Splicing Guide. 3.4. Describe and demonstrate ability to join two straps by



Element of Competence	Competence Outcomes
	threading in accordance with the WorkSafeBC Splicing Guide.
4. File Spikes	4.1. Demonstrate ability to file a marlin spike . Marlin spike may include: <ul style="list-style-type: none">• Diamond or round nose.



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"> • Cutting wire rope • Type of splice including: <ul style="list-style-type: none"> ○ Logger’s Eye ○ Common Long ○ Short Long ○ Passing ○ Molly Hogan to secure pins ○ Knotted Strawline Connection ○ Strawline spliced connector ○ Farmer’s Eye ○ Connecting Molly Hogan • Techniques such as how to file spike (diamond or round nose) • Size of lines to determine amount of tail required • Knots such as: <ul style="list-style-type: none"> ○ General purpose knot ○ Double Cat’s Paw • Joining two straps by threading.
<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"> • Make a Logger’s Eye Splice • Make a Common Long Splice • Make a Short Long Splice • Make a Passing Splice • Make a Threaded Strawline Connection Splice • Make a Knotted Strawline Connection Splice • Make a Strawline Spliced Connector Splice • Make a Farmer’s Eye Splice • Make a Connecting Molly Hogan Splice • Make a General-Purpose Knot • Make a Double Cat’s Paw • Join two straps by threading.



Yarding 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. • Meeting evidence requirements for this unit.
<p>Evidence Sign Off</p>	<ul style="list-style-type: none"> • Evidence must be signed off by designated: • 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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