# **Feller Buncher Assessment**

Assessment	<ul> <li>This document can be used:</li> <li>For gathering evidence in a training environment</li> <li>As a competency check of knowledge on an existing worker; or</li> <li>As a summative assessment.</li> </ul>
Candidate Name	
Assessor Name	
Date of Assessment	
Summary of Assessment	<ul> <li>☐ The candidate met all outcomes of the worker assessment</li> <li>☐ The candidate has NOT met all outcomes of the worker assessment</li> <li>☐ Gap training plan developed</li> </ul>
Date of Reassessment	
Summary of Reassessment	☐ The candidate met all outcomes of the worker assessment ☐ The candidate has <b>NOT</b> met all outcomes of the worker assessment
Instructions	<ul> <li>Complete the assessment with the candidate adding notes to justify your decisions.</li> <li>Ensure the first page of this document is completed (all fields).</li> <li>Develop a gap training plan for practical deficiencies if required.</li> <li>Use the same form for reassessment (if applicable) only reassessing the areas where gaps exist.</li> </ul>
	<ul> <li>Conduct the competency conversation before conducting the practical assessment.</li> </ul>

**Note:** This worker assessment covers the technical components of a specific role. For general knowledge and a complete picture of a worker's competency, BC Forest Safety recommends the optional Basic Forest Worker competency profile and assessment tools that can be found at www.bcforestsafe.org.

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# **Part 1 - Competency Conversation**

#### **General Instructions**

To conduct a competency conversation, ask the worker the questions in this first part of the assessment to determine if they understand the knowledge components of their role. It is acceptable to rephrase the question in a way that the worker understands but the worker cannot be given hints to the correct answer. The assessment should not be used as a training opportunity; instead any deficiencies identified in this assessment should be collected into a gap training plan and addressed with the worker later.

**Important Note:** Do not conduct competency conversation while operating equipment.

#### **Training and Assessment Rubric**

# **Assessment Instruction**

- S This means that the candidate must supply all responses listed, as the knowledge is **safety** critical or important.
- B This means the candidate must at a minimum verbalize the **bolded** responses, and additional responses are further proof of competence.
- P The candidate must give a **percentage** of responses correctly to reasonably show competence in the area.

#### 1068 - Describe Signals Used in Forestry

Locator	Questions		
General Yarding / General Mechanized Harvesting			
1.2	What is the signal process	before blasting?	
	☐ 12 short whistle signal	ls sounded at 1 second interval	ls
	☐ Two minutes elapse after the last warning signal before initiating the blast		
	☐ After blast and inspection one prolonged whistle of at least 5 second duration must be sounded before permission granted to return announced by radio		
	Assessment Instruction: S		
	Assessment:	☐ Outcome met	☐ Outcome not met

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### 1090 - Describe Harvesting Methods

Locator	Questions		
		General Forestry	
1.1	In what conditions are cable-	logging systems generally us	ed?
	☐ Cable logging is generally conducted on steep slope, wet, or inaccessible terrain for ground based mechanized harvesting		
	Assessment Instruction: S		
	Assessment:	☐ Outcome met	☐ Outcome not met
1.2	What are safety consideration	ns related to ground based m	echanized harvesting?
	☐ Machine limitations (slo	pe and stability, handling loads)	
	☐ Ground conditions		
	☐ Steep slopes		
	☐ Lock out		
	☐ Three-point contact		
	☐ Crush points		
	☐ Minimum safe separation or hazard zones and safe zones		
	☐ Overhead or buried power or gas		
	☐ Danger trees		
	Assessment Instruction: P -7 from list		
	Assessment:	☐ Outcome met	☐ Outcome not met
1.3	What are safety consideration	ns related to cable logging sy	stems?
	☐ Runaway trees		
	☐ Bight		
	☐ Clearing		
	☐ Workers in area		
	☐ Minimum safe distance	S	
	☐ Danger trees		
	☐ Crushing		
	Assessment Instruction: P – 6	from list	
	Assessment:	☐ Outcome met	☐ Outcome not met

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2.3	What is critical to do when changing a logging plan?		
	☐ Communicate to all workers what the changes are		
	Assessment:	☐ Outcome met	☐ Outcome not met

### 1081 - Describe Tools and Equipment for Heavy Machinery

Locator	Questions		
	Mechanized Harvesting / Road Building		
1.1	What are 9 common and spe	cialty tools used on heavy eq	uipment?
	☐ Multi-testers		
	☐ Inspection mirrors		
	☐ Pick up magnets		
	☐ Easy outs		
	☐ Wrenches		
	☐ Taps and dies		
	☐ Hammers		
	☐ Shovels		
	☐ Drift and pry bars		
	☐ Chisel		
	☐ Files		
	☐ Jack		
	☐ Air tools		
	☐ Impact wrenches		
	☐ Ratchets		
	☐ Die grinder		
	☐ Greaser		
	☐ Hose press		
	Assessment Instruction: P – 9	from list	
	Assessment:	☐ Outcome met	☐ Outcome not met

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2.1	Name eight pieces of welding	g equipment and supplies us	ed on heavy equipment
	☐ Oxy acetylene cutting s	systems	
	☐ Air arc		
	☐ Chip hammers		
	☐ Propane gas torch 'tige	r torch'	
	☐ Wire brush		
	☐ Chalk		
	☐ Tip cleaner		
	☐ Grinder		
	☐ Drill		
	☐ Cut off saw		
	☐ Air tools		
	☐ Flux chippers		
	☐ Grinders		
	☐ Vice		
	☐ Cutting table		
	☐ Plasma cutter		
	Assessment Instruction: P – 8	from list	
	Assessment:	☐ Outcome met	☐ Outcome not met
2.2	What are three types of weld	ing commonly used on heavy	equipment?
	☐ Stick		
	☐ Wire feed		
	☐ Brazing		
	Assessment Instruction: S		
	Assessment:	☐ Outcome met	☐ Outcome not met
2.3	What PPE is mandatory whe	n using welding equipment?	
	☐ Gloves		
	☐ Welding helmet		
	☐ Cutting goggles		
	☐ Fireproof clothing		
	☐ Safety glasses		
	Assessment Instruction: S		
	Assessment:	☐ Outcome met	☐ Outcome not met

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3.1	What are common gas-powe	red tools used on heavy equi	pment?
	☐ Cut off saw		
	☐ Pressure washers		
	☐ Gas or electric compressors		
	☐ Gas or diesel generators		
	☐ Pumps		
	☐ Plate compactor		
	Assessment Instruction: P – 4	from list	
	Assessment:	☐ Outcome met	☐ Outcome not met

#### 1082 - Describe General Heavy Equipment Inspection and Maintenance Procedures

Locator	Questions		
	Mechanized	Harvesting / Road Building	
1.1	What are the major mechanical components or systems that require maintenance and inspection?		
	☐ Engine systems		
	☐ Hydraulic systems		
	☐ Electrical systems		
	☐ Attachments		
	☐ Undercarriage		
	Assessment Instruction: S		
	Assessment:	☐ Outcome met	☐ Outcome not met
1.2	What are common symptoms of	or indicators of failure?	
	☐ Noise		
	☐ Vibration		
	☐ Smells		
	☐ Leaks		
	☐ Cracks		
	☐ Lack of power		
	☐ Improper function		
	☐ Exhaust colour		
	☐ Gauges		

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	☐ Warning lights		
	Assessment Instruction: P – 7 fro	m list	
	Assessment:	☐ Outcome met	☐ Outcome not met
2.1	What are the three main pre-sta	art procedures?	
	External visual equipment	checks	
	☐ Fluid checks		
	☐ Operational (in cab) check	KS	
	Assessment Instruction: S		
	Assessment:	☐ Outcome met	☐ Outcome not met
2.2	What are the main consideration	ons for shut down procedures	5?
	☐ Parking position		
	☐ Attachments grounded		
	☐ Cool down time		
	☐ Maintenance log		
	Assessment Instruction: S		
	Assessment:	☐ Outcome met	☐ Outcome not met
2.3	What are common maintenance	e procedures on heavy equip	ment?
	☐ Lock out or zero energy st	tate	
	☐ Greasing		
	☐ Adding fluids and fuel		
	☐ Draining fuel sumps and v	vater separators	
	☐ Tightening loose hardware	е	
	☐ Repair leaks		
	☐ Replacing O-rings		
	☐ Replacing hoses		
	☐ Replacing filters		
	☐ Bleeding air from fuel syst	tems	
	☐ Adjust track tension		
	☐ Adjust belt tension		
	☐ Maintain tire pressure		
	☐ Clean and maintain batter	ries	
	Assessment Instruction: P – 10 fr	om list	
	Assessment:	☐ Outcome met	☐ Outcome not met

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## 1083 - Describe Heavy Equipment Mechanical Systems

Locator	Questions		
	Mechanized	Harvesting / Road Building	
1.1	What are two basic components	s of an engine and their funct	tion?
	☐ Turbo charger – increases power on an engine		
	☐ Cylinder head – Allows air / fuel into / out of combustion chamber		
	☐ Piston – creates compression		
	Assessment Instruction: P – 2 from	n list	
	Assessment:	☐ Outcome met	☐ Outcome not met
1.2	Name two things a driver should	d check in an engine lubricat	ion system
	☐ Oil level		
	☐ Oil pressure		
	☐ Grade of oil required		
	Assessment Instruction: P – 2 from	n list	
	Assessment:	☐ Outcome met	☐ Outcome not met
1.3	What are two components of a	cooling system and their fund	ction?
	☐ Radiator – allows air and water flow to cool engine		
	☐ Hoses – water to circulate		
	☐ Fan – draw air into radiato	r	
	☐ Fan belts – drive the fan		
	Assessment Instruction: P – 2 from	n list	
	Assessment:	☐ Outcome met	☐ Outcome not met
1.4	What are three components of a	a fuel system and their functi	on?
	☐ Tanks – holds fuel		
	☐ Lines – deliver fuel from ta	nk to engine	
	☐ Filters – removes foreign o	lebris from fuel	
	☐ Pump – Deliver fuel to eng	ine	
	Assessment Instruction: P – 3 from	n list	
	Assessment:	☐ Outcome met	☐ Outcome not met

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1.5	What are three components of air induction and exhaust systems and their function?		
	☐ Pre-cleaner – Takes coa	se particulates from air supply	
	☐ Air filter – Removes fine	particulates from air supply	
	☐ Air to air – Delivery syste	m of air to the turbo charged er	ngine
	☐ After treatment (DEF) – S	System that minimizes air pollut	ion in exhaust
	Assessment Instruction: P – 3 fr	om list	
	Assessment:	☐ Outcome met	☐ Outcome not met
2.1	What are three components of	hydraulic systems including	function?
	☐ Pumps – pump fluid		
	☐ Motor – propulsion on co	mponents	
	☐ Cylinders – move attachr	nents or implements	
	☐ Hoses – delivers fluid to i	motors or cylinders	
	☐ Valves – Controls flows		
	☐ Tank and fluid level indic	ator – identify levels of fluids	
	Assessment Instruction: P – 3 fr	om list	
	Assessment:	☐ Outcome met	☐ Outcome not met
3.1	What are three components of	a powertrain system includi	ng function?
	☐ Travel motor – allows ma	chine/component to move	
	☐ Transmissions – transfer power form engine to drive systems		
	☐ Differentials – transfers p	ower from transmission to axle	S
	☐ Swing gear – allows mac	hine to rotate	
	☐ Final drives – drives tracl	KS .	
	☐ Engine – primary source	of power	
	☐ Pumps – secondary sour	ce of power	
	Assessment Instruction: P – 3 from	om list	
	Assessment:	☐ Outcome met	☐ Outcome not met
4.1	What are three components of	track systems including fun	ction?
	☐ Tracks – enables machin	e to move	
	☐ Idler – allows track to rota	ate around	
	☐ Sprocket – drives track to	rotate around	
	☐ Bottom and top (carrier) ı	ollers – reduce friction within th	ne undercarriage system
	☐ Track adjuster – keeps tr	ack tight	
	Assessment Instruction: P – 3 from	om list	
	Assessment:	☐ Outcome met	☐ Outcome not met

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5.1	What are four types of braking systems?		
	☐ Air system		
	☐ Hydraulic system		
	☐ Air / hydraulic system		
	☐ Engine braking system (d	compression, exhaust)	
	☐ Hydrostatic system		
	Assessment Instruction: P – 4 from	om list	
	Assessment:	☐ Outcome met	☐ Outcome not met
6.1	Name three common parts of	electrical systems and their f	unction
	☐ Alternators – creates elec	ctrical current	
	☐ Starters – starts the engi	ne	
	☐ Batteries – powers the st	arter	
	☐ Fuses – fail safe for syste	em	
	☐ Solenoids – a electromaç	gnetic switch	
	☐ Switches – turns power of	on and off	
	Assessment Instruction: P – 3 from	om list	
	Assessment:	☐ Outcome met	☐ Outcome not met
6.1	What are the two common typ	es of electrical systems?	
	☐ 12 V and 24 V		
	Assessment Instruction: S		
	Assessment:	☐ Outcome met	☐ Outcome not met
7.1	Name three types of ground en	ngaging systems and their fu	nction
	☐ Blades – pushes materia	I	
	☐ Buckets – carries materia	al	
	☐ Scarifiers – digs up grour	nd	
	☐ Grapples – grabs logs		
	l	1	
	☐ Rock hammer – breaks r	OCKS	
	☐ Rock hammer – breaks r		
		es material	
	☐ Compactors – compresso	es material s in rocks	

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## 1092 - Describe and Operate Feller Buncher

Locator	Questions				
1.1	Name two places an operator can find information on operational capabilities, limitations, and restrictions of feller bunchers				
	☐ Operator manuals				
	☐ Standard operating proced	dures			
	Assessment Instruction: S				
	Assessment:	☐ Outcome met	☐ Outcome not met		
1.3	What should be considered wh	en developing a harvest plan	?		
	☐ Other phases				
	☐ Terrain and soil conditions	s including drainage patterns			
	☐ Site sensitive area and no	-go zones			
	☐ Skid direction				
	☐ Bunch and tree size				
	☐ What trees to leave				
	Assessment Instruction: S				
	Assessment:	☐ Outcome met	☐ Outcome not met		
1.4	What are common hazards rela	ted to operating a feller bunc	her?		
	☐ Slips and falls				
	☐ Crush points				
	☐ Fire from debris build up v	vith machine			
	☐ High speed saw blade				
	☐ Roll over				
	☐ Wildfire from blade				
	☐ Flying debris from blade				
	☐ Saw contacting tracks or o	other parts of machine			
	☐ Other worker in work area				
	☐ Energized machines				
	☐ Communication failure				
	☐ Unstable soil				
	☐ Slippery machine surfaces	3			
	☐ Jill pokes				
	Logs entering cabs				
	Assessment Instruction: P – 10 fr	om list			

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	Assessment:	☐ Outcome met	☐ Outcome not met				
2.5	What long-term affect does constantly sitting in a poor body position cause?						
	☐ Sore back						
	☐ Sore neck						
	☐ Sore shoulders						
	☐ Carpal tunnel syndrome						
	Assessment Instruction: P – 3 fro	om list					
	Assessment:	☐ Outcome met	☐ Outcome not met				
3.3	What basic repairs may an ope	rator perform on a feller bund	cher?				
	☐ Replace hydraulic hoses						
	☐ Replace / clean fuel filters						
	☐ Change engine oil and filter						
	☐ Adjust belt tension						
	☐ Clean battery terminals						
	☐ Adjust track tension or air tire pressure						
	☐ Rotate or replace saw teeth						
	Assessment Instruction: P – 5 from	m list					
	Assessment:	☐ Outcome met	☐ Outcome not met				
4.1	What types of saws can a feller	buncher use?					
	☐ Hot saw						
	☐ Intermittent saw						
	Assessment Instruction: S						
	Assessment:	☐ Outcome met	☐ Outcome not met				

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# Part 2 - Practical Assessment

#### **General Instructions**

To conduct the practical assessment, monitor the worker in a variety of situations to determine if they can consistently perform the skill components of their role in a safe and effective manner. Once confident that the worker can conduct the skills consistently, mark the outcome met. If the worker cannot consistently perform the skills required, add this component to the gap training plan.

Remember not to distract the operator when conducting the practical assessment.

#### **Training and Assessment Rubric**

## Outcome Not Met (ONM)

**Skills:** Can complete the task but only with direct instruction and supervision, may lack consistency in application.

**Knowledge:** Does not understand what they are doing, or are not aware of a knowledge deficiency, or need guidance and support.

**Attributes:** Displays limited or no professional attributes including being fit for work, prepared for the day, working in an organized manner, achieving work outcomes, or lacks in consistency.

#### Outcome Met (OM)

**Skills:** Consistently completes the task using safe work practices multiple times in a variety of contexts.

**Knowledge:** Has a solid grasp of underpinning knowledge, consistently applies it, and can explain it.

**Attributes:** Consistently displays professional attributes including being fit for work, prepared for the day, working in and organized manner and achieving work outcomes.

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A) PREPARE FOR THE DAY		ONM	N/A
Arrived on time			
Clothing for conditions	П	П	П
<ul> <li>Layered clothing appropriate to the elements for working and transport conditions</li> </ul>			
Nutrition and water			
<ul> <li>Adequate food for the day</li> </ul>			
<ul> <li>Sufficient hydration for work and weather conditions</li> </ul>			
Fit for work			
<ul> <li>Candidate is physically able to do the task</li> </ul>			
3-point contact on and off machine			
Able to get up and down machine			
Able to perform simple maintenance			
Able to change attachments			
Can fit through escape hatch			
Not noticeably impaired	П	П	П
<ul> <li>Candidate is not obviously physically or mentally impaired (by drugs, alcohol, personal situations, fatigue)</li> </ul>			
Knows where ERP is located			
B) PERSONAL PROTECTIVE EQUIPMENT (where applicable)	ОМ	ONM	N/A
Hard hat			
<ul> <li>CSA – less than 3 years old / ANSI – less than 5 years old</li> </ul>			
<ul> <li>No dents/cracks, modifications</li> </ul>			
<ul> <li>Suspension maintained (4-point min)</li> </ul>			
Hi-Vis			
<ul> <li>Minimum 120 square inches front and back</li> </ul>			
<ul> <li>Not faded, discoloured, torn or permanently dirty</li> </ul>			
Contrasts with the work environment			
Leg protection			
Minimum 3600/4100 FPM rating			
<ul> <li>Kevlar not compromised or exposed</li> </ul>			
<ul> <li>Pants maintained and repaired (no loose tears to outer laver)</li> </ul>			

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Face/Eye protection		
Face screen free of holes	 _	_
Moves freely between down and raised position		
Safety glasses used when appropriate		
Hand protection		
Not damaged and free of holes		_
Appropriate to weather conditions		
Sized correctly for hands		
Hearing protection		
Minimum 24 NRR		
Maintained and in working condition		
Footwear		
Good condition including sole tread pattern		
Must be laced		
Has fire extinguisher in cab		
Dust mask		
NIOSH N95 compliant		
PPE inspected and maintained		
PPE used consistently as required		

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C) PRE-WORK ACTIVITIES		ONM	N/A
Equipment manuals available			
Pre-start equipment checks	П	П	
Walk around and check for leaks		_	
Check for loose components			
<ul> <li>Check for cracks, loose, missing bolts</li> </ul>			
Check for damage to machine			
<ul> <li>Obstructions</li> </ul>			
Fluid levels			
Water / Coolant			
Hydraulic			
Engine			
Night switch			
Check track pads (where applicable)			
Tire pressure (where applicable)			
Check for tire damage (where applicable)			
<ul> <li>Wheels and wheel nuts (where applicable)</li> </ul>			
Close air reservoir (where applicable)			
Safety equipment check			
Start-up procedures			
<ul> <li>Maintain 3-point contact on and off machine</li> </ul>			
Find key			
Check gauges			
Warning systems			
Start and warm up hydraulics			
Check transmission			
Warning lights			
• Wipers			
Seatbelt			
Lock out			
Parking brake			
All controls and major systems			
Escape hatch			
Housekeeping			
Radio operational			

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D) COMMUNICATION		ONM	N/A
Attend pre-work meetings			
Ensures hazards are understood			
Communicates hazards throughout workday			
Uses signals as required			
Consistently communicates work plans			
Professional communication throughout workday			
E) ERGONOMICS	ОМ	ONM	N/A
Lifts correctly (where applicable)			
Best practice for body position while operating			
Walks safely in the bush (where applicable)			
F) COMPLETE TASKS	ОМ	ONM	N/A
Shut down procedures			
Safe parking location			
Brake on (where applicable)			
Lower boom / blade / attachments			
Position for ease of access and egress			
Level position for fluid checks			
Cool down before shut-down			
Walk around and general check			
Secure / lock machine			
3-point contact on and off			
Turn off night switch			
Close air reservoir access (where applicable)			

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Daily maintenance tasks			
Lubrication systems	_	_	
Air intake systems			
Air system reservoir			
Fuel tank sump			
Drain air system / water separator			
<ul> <li>Drain fuel filters / water separator</li> </ul>			
Inspect and clean components			
Housekeeping			
<ul> <li>Track tension (where applicable)</li> </ul>			
Tire pressure (where applicable)			
Greasing			
• Fueling			
Check for leaks			
Basic repairs			
Hydraulic hoses / fittings / O-rings			
Fuel / air filter			
Engine oil change			
Belt tension			
Battery terminals			
Change saw teeth			
Change lights			
Repair wiring			
G) OPERATE FELLER BUNCHER	ОМ	ONM	N/A
Maintains 3-point contact on and off machine			
Ability to use multiple functions while operating equipment			

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Monitors equipment performance while operating

Operator functions on feller buncher		П	П
Raise and lower boom	_	_	_
<ul> <li>Retract and extend stick and tilt head up and down and side to side</li> </ul>			
<ul> <li>Coordinate boom and stick movement</li> </ul>			
<ul> <li>Walk machine backward and forward</li> </ul>			
Turn left and right			
<ul> <li>Rotate the house left and right and up and down</li> </ul>			
Coordination of the cut			
<ul> <li>Control and placement of the trees in bunches of appropriate size</li> </ul>			
Collect multiple stems in felling head			
<ul> <li>Maintain control when cutting oversized trees</li> </ul>			
Smooth operation			
Falling plan			
<ul> <li>Develop falling plan:         <ul> <li>Including how to deal with oversize timber with multiple cuts</li> <li>Defined split lines between mechanical and hand fall</li> <li>Hazards identified including brushing along boundaries</li> </ul> </li> <li>Implementation of plan</li> <li>Adjusting as needed</li> <li>Knows effects on other phases</li> <li>Terrain and soil condition considered, including drainage patterns</li> <li>Identifies site sensitive areas and no-go zones</li> <li>Considered skid direction, bunch and size of trees</li> <li>Leaves trees as required</li> </ul>			
Use and maintain feller buncher attachments			
<ul> <li>Hot saw – bearings – change saw teeth</li> </ul>			
<ul> <li>Intermittent saw – slides – change saw teeth</li> </ul>			
Winch assist system			

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Hazard awareness	Ιп		
Slips trips falls	_	_	
Fire from debris build up with machine			
High speed saw blade			
Roll over			
Wildfire from blade			
Crush injuries			
<ul> <li>Flying debris from rotating saw head</li> </ul>			
Harvest map			
Read to plan days activities			

#### This is the last page of the assessment.

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Printed copies are considered uncontrolled and may be outdated. Current versions are available from the BCFSC. Refer to <a href="https://www.bcforestsafe.org/node/2823">https://www.bcforestsafe.org/node/2823</a> for more information.

Feedback is welcome and may be sent to <a href="mailto:training@bcforestsafe.org">training@bcforestsafe.org</a>.







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