

# TECHNICAL EVALUATION RECORD



<b>QUALIFICATION:</b>	L2 Award in Ground based chainsaw operations	<b>Qualification Code/s:</b>	0039-20 & 0039-21
		<b>Units:</b>	201 202

<b>Assessor Name:</b>		<b>Technical Verifier Name:</b>				
<b>Assessor No:</b> <b>NEW? D.O.B:</b>		<b>Technical Verifier No:</b>				
<b>Assessor email:</b>		<b>Start Time:</b>				
<b>Invoice To:</b> (Include Centre name if applicable)		<b>End Time:</b>				
<b>CRITERIA:</b> (See guidance notes on next sheet)	<b>PERFORMANCE EVALUATION(Circle):</b>					<b>COMMENTS:</b>
Health and Safety requirements explained and Risk Assessment completed	1	2	3	4	5	
Sources of reference information & industry good practice guides	1	2	3	4	5	
Saw safety features & familiarity with other models	1	2	3	4	5	
Chain identification & sharpening	1	2	3	4	5	
Bar maintenance	1	2	3	4	5	
Drive sprocket	1	2	3	4	5	
Chain brake	1	2	3	4	5	
Power unit maintenance: Air filter, spark plug, exhaust, clutch.	1	2	3	4	5	
Recoil starter	1	2	3	4	5	
Chain tension	1	2	3	4	5	
Knowledge of fuel & lubricants, filters and pumps.	1	2	3	4	5	
Knowledge of PPE requirements	1	2	3	4	5	
Knowledge of Fuelling sites and Bio-security	1	2	3	4	5	
Starting and operational checks	1	2	3	4	5	
Legal constraints	1	2	3	4	5	
Knowledge & experience of felling sites	1	2	3	4	5	
Accurate assessment of site & trees to be felled Risk Assessment (2 <sup>nd</sup> site)	1	2	3	4	5	
Accurate felling cuts up to 200mm including knowledge of function/purpose	1	2	3	4	5	
Break in and brashing and prepare tree for felling	1	2	3	4	5	

Accurate felling cuts up to 380mm including knowledge of function/purpose	1	2	3	4	5	
Take down of hung up trees – hand methods & use of winch	1	2	3	4	5	
Branch removal	1	2	3	4	5	
Measuring & conversion	1	2	3	4	5	
Cross-cutting & stacking	1	2	3	4	5	
Presentation & knowledge of product extraction systems	1	2	3	4	5	
Use of saw at a safe & efficient speed	1	2	3	4	5	
Practical assessment demonstration – Assessor to assess the TV for a section of the assessment	1	2	3	4	5	
<b>PERFORMANCE EVALUATION COLUMN TOTALS:</b>						<b>= TOTAL SCORE:</b>
<b>Result of Technical Evaluation (tick):</b>	<b>PASS</b>	<b>TOTAL SCORE REQUIRED TO ACHIEVE ASSESSOR STATUS: (NB. ACHIEVED IN PERFORMANCE EVALUATION COLUMNS 4 &amp; 5 ONLY)</b>				<b>108</b>
	<b>FAIL</b>					
<b>TECHNICAL VERIFIER COMMENTS (ACTION PLAN):</b>						
<i>Please continue on reverse if necessary</i>						
<b>ASSESSOR COMMENTS:</b>						
<i>Please continue on reverse if necessary</i>						
<b>TECHNICAL VERIFIER SIGNATURE:</b>					<b>Cost: £200 Half Day £300 Full Day</b>	<b>DATE:</b>
<b>ASSESSOR SIGNATURE:</b>						

## Guidance

The following information outlines the content of the technical evaluation. Applicants will be expected to demonstrate practical skills and have knowledge of the following.

### Practical Demonstration of assessment

Applicants will need to be able to conduct an assessment, of the verifier from a selected page, of the CS maintenance guidance. E.g. page 9 or 10

### Legislation and environmental considerations

The person being evaluated should have a working knowledge of the following: eg Key principles and practical relevance.

- Health and Safety at Work etc. Act 1974 (HASAWA)
- Management of Health and Safety at Work Regulations 1999 (MHSWR)
- Provision and Use of Work Equipment Regulations 1998 (PUWER)
- Lifting Operations and Lifting Equipment Regulations 1998 (LOLER)
- Personal Protective Equipment at Work Regulations 1992 (PPE regs)
- Manual Handling Operations Regulations 1992
- Control Of Substances Hazardous to Health Regulations (COSHH)
- The Health and Safety (First-Aid) Regulations 1981
- Reporting of Injuries Diseases Dangerous Occurrence Regulations (RIDDOR)
- Noise and Vibration Regulations
- Wildlife and Countryside Act
- Countryside and Rights of Way Act 2000
- European Protected Species Directive 2007

Applicants will be asked to demonstrate further knowledge of how they would make arrangements to comply with above Regulations.

### Sources of reference information and industry good practice guides

Applicants will require knowledge of:  
basic content and relevance

- The Health and Safety Executive (HSE) leaflet, 'Chainsaws at Work'
- Forestry Industry Safety Accord (FISA) guidance
- Environmental legislation and bio-security measures
- Operators' manuals

### Saw safety features and familiarity of other chainsaw models

The applicant will need to be able to identify and demonstrate knowledge of the safety features and common variations between different saws, e.g.:

- Inboard/outboard clutch
- Manual/inertia chain brake
- Starter features eg: Elasto-start, Ergo-start
- Cooling system
- Air filters – pre-filters; main filters constructed of different materials and the recommended method/frequency of cleaning
- Horizontal/vertical cylinder (top/rear handled), and associated location of exhaust etc.
- Rubber/metal spring A/V mountings
- Specific product dev
- elopments within saw ranges eg: an awareness of M-tronic, Auto-tune, fuel injection and X-torq
- Battery Powered Chainsaws & Charging Systems eg Knowledge of battery chainsaws and their charging systems, the maintenance, advantages and disadvantages and associated hazards.

### **Chain ID and sharpening**

A thorough understanding of chain components, their function, and the terminology applied by different manufacturers will be required.

- Chain type/profile
- Guard links
- Pitch, gauge
- Identification marking systems
- Recognition of the most common chain types and knowledge of sharpening specifications, without reference to product information (See chain ident exercise attached)
- Interpretation of filing information from manufactures information e.g. chain box
- Familiarity with a range of sharpening methods, file guides and depth gauge setting tools.

### **Bar maintenance**

Applicants will be expected to examine, maintain and refit the guide bar. Identify and remedy a range of common faults.

### **Drive sprocket**

Applicants will be expected to remove and replace inboard and outboard sprockets and comment on sprocket types and wear tolerances.

### **Chain brake**

Applicants will be expected to carry out the maintenance and explain the replacement of the chain brake mechanism, for inboard and outboard clutches.

### **Power unit maintenance, air filter, spark plug, exhaust and clutch.**

Applicants will be expected to carry out maintenance of and diagnose faults relating to the above.

### **Recoil starter**

Applicants will be expected to remove, de-tension, inspect, maintain, re-tension and refit and state the cord replacement procedure.

### **Chain tension**

Applicants will be expected to re-tension chain to the manufacturers' recommendations and explain the importance.

### **Fuel and lubricating systems**

Applicants will require knowledge of types of fuel and lubricants, filters and pumps.

### **PPE**

Requirements, suitability, CE marking, chain speed ratings and trouser Types.

### **Fuelling sites and Bio-security**

Knowledge of suitable fuelling sites and spillage prevention.

Basic understanding of Bio-security relating to forestry /worksites.

### **Legal constraints**

Applicants will require knowledge of: Felling licences, TPO's and conservation areas.

### **Risk assessment**

Applicants will be required to carry out a site specific risk assessment

### **Knowledge and experience of felling sites**

Applicants will need to be able to demonstrate knowledge of and explain:

- Thinning regimes eg: selective, line thinning.
- Organised felling techniques eg: bench, contour felling.
- Presentation methods eg: shortwood, pole length.
- Extraction methods eg: skidder, forwarder.

### **Accurate assessment of site and trees to be felled**

Applicants will need to be able to carry out an accurate assessment of trees and site.

### **Prepare tree for felling**

- Correct break in
- Brashing
- De-buttressing
- Prepare escape routes

### **Accurate felling cuts up to 200mm**

Applicants will need to be able to demonstrate and have knowledge of:

- Step cut
- 80% cut
- Spear cut
- V cut

### **Accurate felling cuts up to 380mm**

Applicants will need to be able to demonstrate and have knowledge of:

- Basic cut
- Split level
- Dogs tooth
- Danish/safe corner

### **Take down of hung up trees, hand methods and use of winch**

Applicants will need to be able to demonstrate and have knowledge of:

- Hinge removal
- Letter box cut
- Rolling out
- Poling/drag back
- Winching (including configuration and compatibility)

### **Branch removal**

Applicants will need to be able to demonstrate and have knowledge of:

- Snedding/delimiting
- Appropriate to tree species

### **Measuring and conversion**

Applicants will need to be able to demonstrate and have knowledge of:

- Logging tape
- Measuring stick
- Saw lengths

### **Cross-cutting and stacking**

Applicants will need to be able to demonstrate and have knowledge of:

- Tension and compression
- Operator stance
- Boring
- Manual handling techniques
- Use of aid tools

### **Use of a saw at a safe and efficient speed**

Applicants will need to be able to demonstrate and have knowledge of:

- Efficiency
- Speed
- Appropriate techniques

**Saw chain identification exercise.**

**NAME:**

<b>Chain number</b>	<b>Make</b>	<b>Type</b>	<b>Pitch</b>	<b>Gauge</b>	<b>File Size</b>	<b>Top Plate angle</b>	<b>Filing angle</b>	<b>Score</b>	
1									
2									
3									
4									
5									
								<b>Total:</b>	