

LANTw19 - SQA Unit Code H2NP 04

Carry out routine maintenance of chainsaw and cutting system



Overview

This standard describes the maintenance of a chainsaw and sharpening of cutting system including guide bar carried out routinely by the operator

Chainsaws used in aerial and ground work are covered

This work will be carried out in a workshop or a woodland environment

“Routine” in this standard means corrective and preventative maintenance that is carried out daily or at regular intervals by the operator prior to and during work

If you are working with chemicals or machinery you need to be appropriately trained or certificated in line with current legislation

This standard is for all those working with chainsaws

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Performance criteria

You must be able to:

- P1 assess the risks associated with the site and the proposed works
- P2 select and implement appropriate working method in accordance with the assessed risks
- P3 select and wear personal protective equipment suitable for the routine maintenance
- P4 identify safety features on the chainsaw are present and functioning
- P5 select appropriate maintenance tools for the power unit and cutting systems in accordance with manufacturer's requirements
- P6 inspect, clean, service and maintain the **power unit** in accordance with manufacturer requirements and industry guidelines
- P7 inspect **components** within the power unit
- P8 inspect and maintain **cutting system** in accordance with manufacturer's recommendations using appropriate tools
- P9 replace damaged, missing or worn components
- P10 report any defects appropriately
- P11 carry out routine operator maintenance, pre-start checks and setting of the machine for use
- P12 reassemble chainsaw and cutting system to functional/operational standard
- P13 maintain the health and safety of yourself and others at all times in accordance with currently legislation

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Knowledge and understanding

You need to know and understand:

- K1 how to identify hazards and assess risks
- K2 how to interpret risk assessments
- K3 emergency planning and procedures relevant to the work
- K4 how to use a maintenance checklist/report sheet
- K5 the reasons why safety features are fitted to chainsaws and how they function
- K6 key areas to keep clear of debris during operation
- K7 key points of operational safety of a chainsaw
- K8 the function and maintenance requirements of individual components
- K9 how to identify key indicators of correct machine set up of individual components
- K10 the reasons why it is important to check chain and guidebar for wear and damage
- K11 the symptoms and problems encountered when chain and guidebar are worn, damaged or poorly maintained
- K12 how to check the compatibility of guidebar, sprocket and chain
- K13 the acceptable limits of cutting system component wear before replacement is necessary
- K14 the procedures to follow if damage or wear to components exceeds recommended limits
- K15 the importance of selecting the correct file and gauge sizes when sharpening and setting depth of cut on chain, and where to obtain specifications
- K16 how a cutting chain works
- K17 different chain types and their application
- K18 why it is important to maintain chainsaws to a high standard
- K19 why records of chainsaw maintenance are kept
- K20 the steps to be taken when a chainsaw is not repairable, faulty or non-operational
- K21 your responsibilities under current environmental and health and safety legislation and codes of practice

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Additional Information

Scope/range

Clean service and maintain **power unit** covering:

- 1 spark plug
- 2 air filter
- 3 starter mechanism
- 4 chainbrake
- 5 fuel and oil filters
- 6 oil systems

Inspect **components** – clutch mechanisms and exhaust (excluding powered pole pruners)

Inspect and maintain **cutting system** – compatible chain guide bar, chain and sprocket combination

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