

LANCS7 SQA Unit Code H59V 04

Prepare and operate a tractor with attachments

Overview

This standard covers the preparation and operation of a tractor with attachments. The competent use of a tractor with attachments requires considerable skill and knowledge.

The standard covers the use of tractors with a range of attachments in a variety of weather conditions, ground conditions and terrain. These conditions will have an impact on the handling and use of the tractor.

When using a tractor on the public highway you will need to hold the appropriate licenses for both yourself and the tractor.

You must carry out your work in a way which will consider any impact on the natural environment.

This standard is suitable for anyone operating a tractor with attachments on or off the public highway.

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Performance criteria

- You must be able to:*
- P1 wear appropriate clothing and personal protective equipment
 - P2 prepare the tractor by carrying out pre-start checks and adjustments in accordance with specifications, including all safety guards
 - P3 confirm the tractor is safe and ready for use
 - P4 check and adjust operator environment to meet personal requirements
 - P5 select appropriate attachments to carry out the required work
 - P6 make sure attachments are suitable for the tractor
 - P7 make sure attachments are fitted securely and safely
 - P8 make sure attachment is set or calibrated if required
 - P9 check the immediate work area for hazards and obstacles before moving off
 - P10 use the correct warning signals at all times
 - P11 operate and manoeuvre the tractor safely, and consistent with the type of vehicle, attachment and operation
 - P12 make sure attachment is in transport position when not in use in accordance with manufacturers' instructions
 - P13 modify operating procedures to take into account any changes in weather, ground conditions and types of terrain
 - P14 maintain the efficiency of tractor and attachment performance through the appropriate handling and maintenance
 - P15 deal with any hazards and obstacles encountered during operation in accordance with standard practice
 - P16 monitor the operation of the attachment and recognise faults
 - P17 stop and isolate tractor on completion of activity in line with standard practice
 - P18 remove attachment in accordance with specifications
 - P19 leave the tractor and attachment secure after use and in a suitable condition for future use
 - P20 carry out all work in accordance with relevant environmental and health and safety legislation, risk assessment requirements, codes of practice and company policies

LANCS7 SQA Unit Code H59V 04

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Knowledge and understanding

You need to know and understand:

- K1 the type of clothing and personal protective equipment suitable for the activity
- K2 current legislation in relation to the use of tractors and attachments
- K3 the required pre-start checks and adjustments for the tractor and attachments and the reasons why these must be carried out
- K4 how to mount and dismount safely
- K5 how to start and stop the tractor
- K6 the function of all controls and instruments including the tractor and the attachment
- K7 types of attachments and how they should be secured and removed from the tractor
- K8 types of attachments that are safe for use with the tractor and those that are not
- K9 conditions that should be taken into account when considering the use of attachments
- K10 how to set or calibrate attachments where required
- K11 appropriate use of warning signals and indicators
- K12 the ways in which the tractor should be operated and manoeuvred, and how different weather, ground conditions and types of terrain must be taken into account
- K13 how to operate and use attachments safely including counterbalance
- K14 the draft control, position control, external hydraulic and electrical services on the tractor and attachment
- K15 how to put attachment into transport position and work position where appropriate
- K16 the capabilities of the tractor and factors which may affect efficiency
- K17 types of hazards and obstacles which may be encountered and how these should be dealt with
- K18 how to monitor the operation of the attachment and actions that might be required
- K19 faults, defects and wearing parts that occur with attachments used in your place of work
- K20 how to preserve the efficiency of tractor and attachment through daily maintenance
- K21 how and where to refer problems with the tractor or attachment
- K22 the reasons why the tractor and attachment should be left in a suitable condition for future use
- K23 why it is important to maintain safety and security of the vehicle and attachment at all times
- K24 your responsibilities under relevant environmental and health and safety legislation, codes of practice and company policies

LANCS7 SQA Unit Code H59V 04

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Glossary

Specifications:

- drawings
- schedules
- method statements
- Standard Operating Procedures (SOPs)
- manufacturers' guidelines
- customer requirements

Instructions may be verbal or written

Attachments include:

- trailed
- front or rear mounted
- fore-end loaders
- PTO and hydraulic drive equipment

Operator environment:

- seat
- steering wheel
- mirrors
- seat belt

Ground conditions:

- Wet
- Dry
- Frost
- Ice
- Mud
- Loose ground

Terrain:

- hard surfaces
- soft surfaces
- uneven surfaces
- slopes

Efficiency factors:

- gears
- hydraulics
- tyre pressure
- counter balance
- ballasting
- engine revs

Links to other NOS

LANCS57 Prepare and operate a tractor

LANCS59 Prepare and operate a powered vehicle with attachments

LANCS7 SQA Unit Code H59V 04

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