

U17202 Prepare and operate a tractor with attachments

Unit Descriptor:

This unit sets the standard for the preparation and operation of a tractor with attachments. The competent use of a tractor with attachments requires considerable skill and knowledge. Attachments may include loaders, trailers and mounted implements.

It is vital that during the use of tractors you adhere to health and safety requirements at all times. You will need to use of warning signals correctly, and identify (and remove/avoid) hazards.

You will need to be able to use a tractor during a variety of weather conditions. These weather conditions will have an impact on the handling and use of the tractor. You will also need to be able to use tractors both on and off roads.

ELEMENT

PERFORMANCE CRITERIA

To be competent you must achieve the following:

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| 1. Prepare a tractor with attachments for operation | <ul style="list-style-type: none"> 1.1 Carry out pre-start checks and adjustments in accordance with standard procedures. 1.2 Check the immediate work area for hazards and obstacles and take the appropriate action. 1.3 Use attachments that are suitable for the tractor. 1.4 Make sure that attachments are secure and safe. 1.5 Check that the work area is clear of people and animals immediately prior to the start of operations. 1.6 Use the correct warning signals immediately prior to the commencement of operations. 1.7 Carry out all work activities in accordance with health and safety legislation and codes of practice. |
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| 2. Operate a tractor and its attachments | 2.1 Conduct all movements of the vehicle safely, and consistent with the type of vehicle and operation. |
| | 2.2 Modify operating procedures to take into account any changed in weather and ground conditions , and types of terrain . |
| | 2.3 Deal with any hazards and obstacles encountered during the operation in accordance with standard practice. |
| | 2.4 Maintain the efficiency of vehicle performance through the appropriate handling and use of the vehicle. |
| | 2.5 Use attachments to the vehicle safely at all times. |
| | 2.6 Leave the vehicle safe after use and in a condition suitable to its future use. |
| | 2.7 Carry out all work activities in accordance with health and safety legislation, and codes of practice. |

RANGE STATEMENT

You must cover the items below:

Element 1: Prepare a tractor with attachments for operation

A. Carry out the following pre-start checks and adjustments:

- (i) routine maintenance
- (ii) safety checks

B. Use two of the following attachments: (*Also applies to element 2*)

- (i) loaders
- (ii) trailers
- (iii) mounted implements

Element 2: Operate a tractor and its attachments

- A. Operate a tractor in two of the following **ground conditions**:
- (i) wet
 - (ii) dry
 - (iii) frost
- B. Maintain the **efficiency of vehicle performance** through the appropriate use of:
- (i) gears
 - (ii) speed
 - (iii) hydraulics
 - (iv) coverage of ground
- C. Use the vehicle on two of the following **terrain**:
- (i) hard surfaces
 - (ii) soft surfaces
 - (iii) slopes

UNDERPINNING KNOWLEDGE AND SKILLS

- a. The required pre-start checks and adjustments.
- b. Health and safety in relation to the preparation and use of tractors.
- c. Types of attachments and how they should be secured to the tractor.
- d. Types of attachments that are safe for use with the vehicle and those that are not.
- e. Conditions which should be taken into account when considering the use of attachments.
- f. Health and safety requirements in terms of the workplace.
- g. The correct use and duration of warning signals and indicators.
- h. The ways in which the vehicle should be manoeuvred, and how different weather and ground conditions must be taken into account.
- i. Types of hazards which may be encountered and how these should be dealt with.
- j. The capabilities of the vehicle and the expected efficiency of vehicle operations.
- k. The safe use of attachments.
- l. The reasons why the vehicle should be left in a condition suitable for future use.

EVIDENCE GUIDE

For assessment purposes:

(1) Critical Aspects of Evidence

Assessment should involve observation of your preparing and operating a tractor with such attachments as loaders, trailers and mounted implements. You will also need to be able to use tractors both on and off roads.

In demonstrating competence in preparing and operating a tractor with attachments it is required that you:

- A.** Carry out the following **pre-start checks and adjustments**:
 - (i) Routine maintenance
 - (ii) Safety checks

- B.** Use **two** of the following **attachments**:
 - (i) Routine maintenance
 - (ii) Safety checks

- C.** Operate a tractor in **all** of the following ground conditions:
 - (i) Wet
 - (ii) Dry

- D.** Maintain the **efficiency of vehicle performance** through the appropriate use of:
 - (i) Gears
 - (ii) Speed
 - (iii) Hydraulics
 - (iv) Coverage of ground

- E.** Use the vehicle on **all** of the following **terrain**:
 - (i) Hard surfaces
 - (ii) Sort surfaces
 - (iii) Slopes

Use of equipment, chemical and all other activities must meet the requirements of the law and relevant safety and health codes of practice.

(2) Methods of Assessment

Observation by your assessor of you:

- Carrying out **pre-start checks and adjustments** in accordance with standard procedures.
- Using **attachments** that are secure and safe.
- Making sure that **attachments** are secure and safe.
- Checking that the work area is clear of people and animals immediately prior to the start of operations.
- Conducting all movements of the vehicle safely, and consistent with the type of vehicle and operation.
- Leaving the vehicle safe after use and in a condition suitable to its future use.

Answers to written or oral questions from your assessor.

(3) Context of Assessment

Evidence from simulations **is** acceptable for this unit but where simulations are used to generate performance evidence, these should properly reflect the requirements of real working situations.