

Preparing and operating plant or machinery attachments in the workplace

Reference : A/506/4671

Level : Level 2

Credit Value : 7

Guided Learning Hours : 23

Aim : The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in Preparing and operating plant or machinery attachments in the workplace within the relevant sector of industry.

Learning Outcomes		Assessment Criteria
The Learner Will		The Learner Can
1	Interpret the given information relating to the preparation and use of plant or machinery attachments.	<p>1.1. - Interpret and extract relevant information from drawings, specifications, schedules, risk assessments and manufacturers' information.</p> <p>1.2. - Comply with information and/or instructions derived from risk assessments and method statements.</p> <p>1.3. - Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.</p> <p>1.4. - Describe different types of information, their source and how they are interpreted in relation to:</p> <ul style="list-style-type: none"> - drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, and current regulations governing plant and machinery attachments.
2	Organise with others the sequence and operation of plant or machinery attachment use.	<p>2.1. - Organise the work according to given information or instructions.</p> <p>2.2. - Describe how to communicate ideas between team members.</p> <p>2.3. - Organise and communicate with team members and other associated occupations.</p> <p>2.4. - Describe how to organise resources prior to and during attachment use.</p>
3	Know how to comply with relevant legislation and official guidance when preparing and using plant or machinery attachments.	<p>3.1. - Describe their responsibilities regarding potential accidents, health hazards and the environment whilst working:</p> <ul style="list-style-type: none"> - in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting applicable to attachment use. <p>3.2. - Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.</p> <p>3.3. - Explain what the accident reporting procedures are and who is responsible for making reports.</p>
4	Maintain safe and healthy working practices when preparing for and using plant or machinery attachments.	<p>4.1. - Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements when using attachments.</p> <p>4.2. - Demonstrate compliance with given information and relevant legislation when carrying out plant or machinery operations using attachments in relation to two or more of the following:</p> <ul style="list-style-type: none"> - safe use and storage of plant or machinery - safe use and storage of tools and equipment - specific risks to health. <p>4.3. - Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to use of plant or machinery attachments, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:</p> <ul style="list-style-type: none"> - collective protective measures

		<ul style="list-style-type: none"> - personal protective equipment (PPE) - respiratory protective equipment (RPE) - local exhaust ventilation (LEV). <p>4.4. - Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.</p> <p>4.5. - Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other particular task-related activities.</p>
5	<p>Request and select the required quantity and quality of resources to prepare for and use plant or machinery attachments.</p>	<p>5.1. - Request and select resources associated with own work in relation to consumables, materials, attachments, tools and ancillary equipment.</p> <p>5.2. - Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to:</p> <ul style="list-style-type: none"> - fittings, fuels, oils and lubricants - attachments, accessories - hand tools and ancillary equipment. <p>5.3. - Describe how the resources should be used correctly and how problems associated with the resources are reported.</p> <p>5.4. - Explain why the organisational procedures have been developed and how they are used for the selection of required resources.</p> <p>5.5. - Describe any potential hazards associated with the resources and methods of work.</p> <p>5.6. - Describe how to identify weight, quantity, length and area associated with the method/procedure to carry out the work using relevant attachments.</p>
6	<p>Minimise the risk of damage to the work and surrounding area when preparing for and using plant or machinery attachments.</p>	<p>6.1. - Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.</p> <p>6.2. - Prevent damage and maintain a clean work space.</p> <p>6.3. - Dispose of waste in accordance with current legislation</p> <p>6.4. - Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.</p> <p>6.5. - Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.</p>
7	<p>Complete the work within the allocated time when preparing to and using plant or machinery attachments.</p>	<p>7.1. - Demonstrate completion of the work within the allocated time.</p> <p>7.2. - Describe the purpose of the work programme and describe why deadlines should be kept in relation to:</p> <ul style="list-style-type: none"> - types of progress charts, timetables and estimated times - organisational procedures for reporting circumstances which will affect the work programme.
8	<p>Comply with the given contract information to prepare for and operate plant or machinery attachments to the required specification.</p>	<p>8.1. - Demonstrate the following work skills when preparing for and using attachments:</p> <ul style="list-style-type: none"> - preparing, configuring, aligning, fitting, connecting, fastening, adjusting, securing, checking, manoeuvring, operating, disconnecting, removing and storing. <p>8.2. - Use and maintain hand tools, ancillary equipment and/or accessories.</p> <p>8.3. - Prepare, fit and operate plant or machinery attachments to given working instructions for one or more of the following tasks:</p> <ul style="list-style-type: none"> - lift and transfer - cut, shear or sever - bore or drill - drive - hammer - vibrate - removal - compact or level - mixing - access (as a work platform) - demolish or process. <p>8.4. - Remove attachments from host plant following operations and leave in a safe situation.</p> <p>8.5. - Shut down and secure the host item of plant and attachment.</p> <p>8.6. - Describe how to apply safe and healthy work practices, follow</p>

procedures, report problems and establish authority needed to rectify, to:

- identify relevant attachment documentation
- select attachment compatible to the plant and machinery for: lifting, transferring, cutting, shearing, severing, boring, drilling, driving, hammering, vibrating, removing, compacting, levelling, mixing, accessing, demolishing and processing
- configure host plant or machinery to accept attachments
- fit attachments
- operate, maintain, manoeuvre, shut down and secure plant with an attachment.

8.7. - Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:- recognise and determine when specific skills and knowledge are required and report accordingly

- recognise signals to fit and remove attachments
- disconnect attachments
- remove attachments and move plant and machinery
- secure and store attachments
- transport attachments
- use hand tools and equipment.

8.8. - Describe the needs of other occupations and how to effectively communicate within a team when preparing for and using plant or machinery attachments.

8.9. - Describe how to maintain the plant and machinery, hand tools, attachments and ancillary equipment used to carry out the work.

Assessment guidance and/or requirements : This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment. Please refer to the hyperlink for clarity - <https://www.citb.co.uk/qualifications-standards/qualification-framework/>
Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.
Workplace evidence of skills cannot be simulated.

This unit must be assessed against ONE of the endorsements detailed below:

- Rail thimble
- Rail flail
- Rail ballast brush
- Rail ballast/material movement vacuum unit
- Rail hydraulic rail beam
- Rail hydraulic sleeper grab
- Rail trailer
- Rail tamper
- Rail vacuum lifter
- Rail grapple/log grab
- Auger
- Sweeper
- Pecker/hammer
- Mower
- Grab
- Roller
- Mobile work platform
- Fork
- Lifthook
- Bucket
- Lifting jib
- Crusher.