

# MEWP – Boom – A26

## Learning for CPCS



### Outcomes

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Through a combination of targeted training and experience, an individual with the MEWP - boom will be able to:

<b>Roles and responsibilities</b>	<ul style="list-style-type: none"><li>• Describe the nature of the sector of industry and their role and responsibilities as an access operator</li></ul>
<b>Preparing for work</b>	<ul style="list-style-type: none"><li>• Name and explain the purpose of principal components, the basic construction, controls and terminology</li><li>• Conform with manufacturer's requirements as per the operator's handbook, other types of information source and relevant regulations and legislation</li><li>• Undertake all pre-use checks</li><li>• Check emergency lowering functions</li></ul>
<b>Travelling and manoeuvring</b>	<ul style="list-style-type: none"><li>• Configure and set for site travel</li><li>• Travel over level surfaces (all types) and uneven terrain (self-propelled units only)</li><li>• Explain travel procedures and precautions on inclines</li><li>• Manoeuvre in confined spaces</li></ul>
<b>Setting up for work</b>	<ul style="list-style-type: none"><li>• Configure and set for accessing duties</li><li>• Position the platform to access a work position</li><li>• Explain actions required for hazards, underground and overhead services</li></ul>
<b>Working tasks</b>	<ul style="list-style-type: none"><li>• Access working points up to full operating height and reach</li><li>• Travel with a raised platform (relevant endorsement)</li></ul>
<b>Shutting down</b>	<ul style="list-style-type: none"><li>• Carry out shut down and securing procedures</li></ul>

Learning outcome	Training content	
<ul style="list-style-type: none"> <li>Describe the nature of the sector of industry and their role and responsibilities as an access operator</li> </ul>	<ul style="list-style-type: none"> <li>Industry type</li> <li>Customer / client needs</li> <li>Sector contribution</li> <li>Role</li> <li>Reporting structures</li> <li>Lifelong skills</li> <li>Social responsibilities</li> </ul>	<ul style="list-style-type: none"> <li>Communication with colleagues / management / other trades</li> <li>Health and Safety at Work Act</li> <li>Environmental issues</li> <li>Other trades</li> </ul>
<ul style="list-style-type: none"> <li>Name and explain the purpose of principal components, the basic construction, controls and terminology</li> </ul>	<ul style="list-style-type: none"> <li>Differing types</li> <li>Host vehicles / chassis</li> <li>Functions and applications</li> <li>Power units</li> <li>Hydraulic systems</li> <li>Chassis / wheels / tyres</li> </ul>	<ul style="list-style-type: none"> <li>Stability / ground pressure</li> <li>Drive systems</li> <li>Outriggers</li> <li>Safety systems / isolators</li> <li>Attachments</li> </ul>
<ul style="list-style-type: none"> <li>Conform with manufacturer's requirements as per the operator's handbook, other types of information source and relevant regulations and legislation</li> </ul>	<ul style="list-style-type: none"> <li>Operator's Manual</li> <li>Machine decals</li> <li>Health and Safety at Work Act</li> <li>PPE / harnessing</li> <li>Codes of Practice</li> <li>Site plans / drawings</li> </ul>	<ul style="list-style-type: none"> <li>Method statements</li> <li>Certification</li> <li>Risk assessments / COSHH</li> <li>Inspection and reporting forms / procedures</li> </ul>
<ul style="list-style-type: none"> <li>Undertake all pre-use checks</li> </ul>	<ul style="list-style-type: none"> <li>Regular and non-scheduled maintenance procedures</li> </ul>	<ul style="list-style-type: none"> <li>Sequence of pre-use checks</li> <li>Defect reporting</li> </ul>
<ul style="list-style-type: none"> <li>Check emergency lowering functions</li> </ul>	<ul style="list-style-type: none"> <li>Types</li> <li>Procedure</li> </ul>	<ul style="list-style-type: none"> <li>Security and hazards</li> </ul>
<ul style="list-style-type: none"> <li>Configure and set for site travel</li> </ul>	<ul style="list-style-type: none"> <li>Steering / driving controls</li> <li>Attachments / accessories</li> <li>Visibility</li> </ul>	<ul style="list-style-type: none"> <li>Travel position</li> <li>Site travel</li> <li>Road travel / Road Traffic Act</li> </ul>
<ul style="list-style-type: none"> <li>Travel over level surfaces (all types) and uneven terrain (self-propelled units only)</li> </ul>	<ul style="list-style-type: none"> <li>Travel routes</li> <li>Traction</li> <li>Ground conditions</li> <li>Hazards</li> <li>Ground clearance</li> </ul>	<ul style="list-style-type: none"> <li>Stability</li> <li>Working area</li> <li>Personnel integrity</li> <li>Environment protection / minimise damage</li> </ul>

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### Syllabus (continued)

Learning outcome	Training content	
<ul style="list-style-type: none"> <li>• Explain travel procedures and precautions on inclines</li> </ul>	<ul style="list-style-type: none"> <li>• Machine capability</li> <li>• Routes</li> <li>• Stability</li> <li>• Ground clearance</li> </ul>	<ul style="list-style-type: none"> <li>• Traction / grip</li> <li>• Environment protection / minimise damage</li> </ul>
<ul style="list-style-type: none"> <li>• Manoeuvre in confined spaces</li> </ul>	<ul style="list-style-type: none"> <li>• Visibility</li> <li>• Limitations of vision</li> <li>• Hazards</li> <li>• Height restrictions</li> </ul>	<ul style="list-style-type: none"> <li>• Protection of ground / surface / tight turns</li> <li>• Environmental / noise / fumes</li> </ul>
<ul style="list-style-type: none"> <li>• Configure and set for accessing duties</li> </ul>	<ul style="list-style-type: none"> <li>• Machine capability</li> <li>• Required specification</li> <li>• Height</li> <li>• Platform loadings</li> </ul>	<ul style="list-style-type: none"> <li>• Personnel security</li> <li>• Tools / equipment security</li> <li>• Working ranges</li> </ul>
<ul style="list-style-type: none"> <li>• Position the platform to access a work position</li> </ul>	<ul style="list-style-type: none"> <li>• Machine positioning</li> <li>• Ground</li> <li>• Stabiliser footprint</li> <li>• Hazards</li> </ul>	<ul style="list-style-type: none"> <li>• Stability</li> <li>• Working area segregation</li> <li>• Signalling</li> </ul>
<ul style="list-style-type: none"> <li>• Explain actions required for hazards, underground and overhead services</li> </ul>	<ul style="list-style-type: none"> <li>• Types of typical services</li> <li>• Reporting procedures for damage to services</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum distances and clearances</li> <li>• Warning / identification systems</li> </ul>
<ul style="list-style-type: none"> <li>• Access working points up to full operating height and reach</li> </ul>	<ul style="list-style-type: none"> <li>• Hazards</li> <li>• Raising / lowering / extension controls</li> <li>• Stability</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental / noise / fumes</li> <li>• Environmental / weather conditions</li> </ul>
<ul style="list-style-type: none"> <li>• Travel with a raised platform (relevant endorsement)</li> </ul>	<ul style="list-style-type: none"> <li>• Machine capability</li> <li>• Travel route</li> <li>• Hazards</li> <li>• Travel surface</li> <li>• Visibility</li> </ul>	<ul style="list-style-type: none"> <li>• Travel route segregation</li> <li>• Travel controls</li> <li>• Direction of travel / steering</li> </ul>
<ul style="list-style-type: none"> <li>• Carry out shut down and securing procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Shut down procedures</li> <li>• Security</li> </ul>	<ul style="list-style-type: none"> <li>• Parking and positioning</li> </ul>

**Note:** The listed training content should not be considered exhaustive and subjects may be added to reflect the individuals' working environment.

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### Safety critical

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Emphasis to be placed on the following topics:

Topic	Emphasis
<ul style="list-style-type: none"><li>• Stability</li></ul>	<ul style="list-style-type: none"><li>• Manufacturer’s guidance followed with regards to working and travelling at height</li></ul>
<ul style="list-style-type: none"><li>• Fall arrest equipment</li></ul>	<ul style="list-style-type: none"><li>• Selection of the correct type following a comprehensive risk assessment of the activity and MEWP type</li></ul>

### Duration / Ratios

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To allow effective learning, these training times are recommended for this category. Candidates must be profiled to establish learning needs. Durations should be of a length to ensure the learning outcomes are met.

Experience	Accumulated hours
<ul style="list-style-type: none"><li>• Novice operators with no industry or machine experience</li></ul>	14
<ul style="list-style-type: none"><li>• Novice operators with industry experience but no machine experience</li></ul>	14
<ul style="list-style-type: none"><li>• Operators with unrelated (access) machine experience</li></ul>	7

All candidates must have received the equivalent to 7 hours of site safety and induction training

***To allow effective learning, the listed candidate / machine / instructor ratio is the maximum recommended for this category***

3 candidates : 1 machine: 1 instructor

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## Learning for CPCS

### Resources



Practical equipment	Theory equipment
<ul style="list-style-type: none"><li>• MEWP boom that meets current legislation</li><li>• Operator’s manual for the machine(s)</li><li>• Sufficient area of ground suitable for travelling and manoeuvring</li><li>• Structures for accessing</li></ul> <p><b>PLUS</b></p> <ul style="list-style-type: none"><li>• Suitable PPE</li><li>• Harnessing (if required)</li></ul> <p>Risk assessment for all areas where training is occurring</p>	<ul style="list-style-type: none"><li>• PUWER 1998 Regulations</li><li>• LOLER 1998 Regulations</li><li>• HSE GS6</li><li>• Operator’s Manual</li><li>• Specifications for types of MEWP booms</li></ul> <p><b>PLUS</b></p> <ul style="list-style-type: none"><li>• Suitable room for theory training purposes</li><li>• Welfare and rest facilities during training.</li></ul>

### Category

#### Category description and types

CPCS defines a category as an item of plant or equipment used within the construction or allied industries and worked in accordance with the manufacturer’s basic design. Although this category can have varying uses within industry and used with many attachments, for CPCS training and assessment standards, the descriptions reflect basic core use. Endorsements are sub-categories that reflect the variations for this category by chassis type. This category has two endorsements.

To identify a machine within this category, a typical MEWP boom would normally have the listed features and be used within the described characteristics

Category features	Category characteristics
<ul style="list-style-type: none"><li>• Multi-axled (or tracked) chassis containing a power unit; drive, hydraulic and electrical units</li><li>• Hydraulically operated raisable and extendable boom with a platform mounted on a slew ring</li></ul>	<ul style="list-style-type: none"><li>• Able to travel in forward and reverse and change direction during travel by steering the wheels (or track speed differential)</li><li>• Mostly used on smooth surfaces but some units can travel and operate on uneven and loose ground and slopes</li><li>• Accessing capabilities with the platform by raising and/or extending and slewing the boom</li></ul>

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### Endorsements

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#### Endorsement characteristics

- **Endorsement A:** Vehicle mounted – requires host vehicle (van, truck or trailer) and equipped with outriggers. Usually restricted to static work
- **Endorsement B:** Self-propelled – purpose built chassis and can travel (for most variants) with a raised platform