

# Dump Truck Rigid Chassis - A57

## Learning for CPCS



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### Outcomes

Through a combination of targeted training and experience, an individual with a rear-tipping rigid-chassis dump truck 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 a plant 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></ul>
<b>Travelling and manoeuvring</b>	<ul style="list-style-type: none"><li>• Configure and set for travel (site and highway)</li><li>• Travel over rough, undulating ground, steep inclines and level surfaces - loaded and unloaded</li><li>• Manoeuvre in confined spaces whilst carrying loads</li></ul>
<b>Setting up for work</b>	<ul style="list-style-type: none"><li>• Ensure the suitability of the tipping and loading area</li><li>• Explain actions required for hazards, underground and overhead services</li></ul>
<b>Working tasks</b>	<ul style="list-style-type: none"><li>• Position to receive loads</li><li>• Comply with loading procedures</li><li>• Ensure load integrity and security</li><li>• Transfer loads to different locations</li><li>• Discharge loads into trenches and over edges</li></ul>
<b>Completing work</b>	<ul style="list-style-type: none"><li>• Maintain safe and tidy working areas</li></ul>
<b>Shutting down</b>	<ul style="list-style-type: none"><li>• Carry out shut down and securing procedures</li><li>• Explain the loading and unloading procedures for machine transporting</li></ul>

### Syllabus

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 a plant 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>Working practices</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>Functions and applications</li> <li>Power units</li> <li>Hydraulic systems</li> <li>Transmissions</li> <li>Chassis / steering / tyres</li> </ul>	<ul style="list-style-type: none"> <li>Stability / ground pressure</li> <li>Carrying capacities</li> <li>Types of bodies</li> <li>Attachments</li> <li>ROPS / FOPS</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</li> <li>Codes of Practice</li> <li>Site plans / drawings</li> </ul>	<ul style="list-style-type: none"> <li>Method statements</li> <li>Load / tare sheets</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>Configure and set for travel (site and highway)</li> </ul>	<ul style="list-style-type: none"> <li>Driving controls</li> <li>Attachments</li> <li>Security</li> <li>Driving position</li> </ul>	<ul style="list-style-type: none"> <li>Visibility</li> <li>Body position</li> <li>Road Traffic Act</li> </ul>
<ul style="list-style-type: none"> <li>Travel over rough, undulating ground, steep inclines and level surfaces – loaded and unloaded</li> </ul>	<ul style="list-style-type: none"> <li>Driving controls</li> <li>Ground conditions</li> <li>Traction / aids</li> <li>Starting / travelling on inclines</li> <li>Hazards</li> </ul>	<ul style="list-style-type: none"> <li>Working area</li> <li>Site travel</li> <li>Road travel</li> <li>Environment protection / minimise damage</li> </ul>
<ul style="list-style-type: none"> <li>Manoeuvre in confined spaces whilst carrying loads</li> </ul>	<ul style="list-style-type: none"> <li>Visibility / aids</li> <li>Limitations of vision</li> <li>Protection of ground / tight turns</li> </ul>	<ul style="list-style-type: none"> <li>Personnel</li> <li>Environmental / noise / fumes</li> <li>Hazards</li> </ul>

### Syllabus (continued)

Learning outcome	Training content	
<ul style="list-style-type: none"> <li>Ensure the suitability of the tipping and loading area</li> </ul>	<ul style="list-style-type: none"> <li>Access / egress routes</li> <li>Ground type / condition</li> <li>Site markings</li> </ul>	<ul style="list-style-type: none"> <li>Turning areas</li> <li>Hazards</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>Warning / identification systems</li> <li>Reporting procedures for damage to services</li> </ul>	<ul style="list-style-type: none"> <li>Types of typical services</li> <li>Minimum distances and clearances</li> </ul>
<ul style="list-style-type: none"> <li>Position to receive loads</li> </ul>	<ul style="list-style-type: none"> <li>Types of loading vehicles / machines</li> <li>Types of material</li> <li>Stability</li> </ul>	<ul style="list-style-type: none"> <li>Machine suitability</li> <li>Machine capacity</li> <li>Visibility</li> <li>Environmental conditions</li> </ul>
<ul style="list-style-type: none"> <li>Comply with loading procedures</li> </ul>	<ul style="list-style-type: none"> <li>Signalling / following instructions</li> <li>Driver protection</li> <li>Stability</li> <li>Techniques</li> </ul>	<ul style="list-style-type: none"> <li>Regulations / legislation</li> <li>Carrying capacity</li> <li>Weight distribution</li> <li>Visibility</li> <li>Hazards</li> </ul>
<ul style="list-style-type: none"> <li>Ensure load integrity and security</li> </ul>	<ul style="list-style-type: none"> <li>Load types</li> <li>Minimising excess</li> </ul>	<ul style="list-style-type: none"> <li>Projecting loads</li> </ul>
<ul style="list-style-type: none"> <li>Transfer loads to different locations</li> </ul>	<ul style="list-style-type: none"> <li>Travel routes</li> <li>Ground types</li> <li>Haul route procedures</li> <li>Materials / vehicle protection</li> <li>Hazards</li> </ul>	<ul style="list-style-type: none"> <li>Signalling / following instructions</li> <li>Efficiency</li> <li>Visibility</li> <li>Speed limits</li> <li>Environmental conditions</li> </ul>
<ul style="list-style-type: none"> <li>Discharge loads into trenches and over edges</li> </ul>	<ul style="list-style-type: none"> <li>Types of discharge areas</li> <li>Edge and machine protection / wheel stops / spotting logs etc.</li> <li>Ground</li> <li>Stability (raised bodies)</li> <li>Material jams</li> <li>Discharging on inclines</li> </ul>	<ul style="list-style-type: none"> <li>Discharging whilst moving</li> <li>Signalling / following instructions</li> <li>Fully emptying bodies</li> <li>Visibility</li> <li>Hazards</li> </ul>
<ul style="list-style-type: none"> <li>Maintain safe and tidy working areas</li> </ul>	<ul style="list-style-type: none"> <li>Spoil heap security</li> </ul>	<ul style="list-style-type: none"> <li>Minimising spillage</li> </ul>

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### Syllabus (*continued*)

Learning outcome	Training content	
<ul style="list-style-type: none"><li>• Carry out shut down and securing procedures</li></ul>	<ul style="list-style-type: none"><li>• Body cleanliness</li><li>• Shut down procedures</li></ul>	<ul style="list-style-type: none"><li>• Security</li><li>• Parking and positioning</li></ul>
<ul style="list-style-type: none"><li>• Explain the loading and unloading procedures for machine transporting</li></ul>	<ul style="list-style-type: none"><li>• Compatibility</li><li>• Positioning</li></ul>	<ul style="list-style-type: none"><li>• Types of transporter</li><li>• Security</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>• Reversing procedures</li></ul>	<ul style="list-style-type: none"><li>• All reversing and safety aids to be fully functional – use of signaller mandatory on most working areas</li></ul>
<ul style="list-style-type: none"><li>• Stability with raised bodies or uneven ground</li></ul>	<ul style="list-style-type: none"><li>• Checking ground prior to tipping – tipping body slowly (weight transfer) – procedure for tipping on inclines</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>	35
<ul style="list-style-type: none"><li>• Novice operators with industry experience but no machine experience</li></ul>	28
<ul style="list-style-type: none"><li>• Operators with unrelated (dumper / dump truck) machine experience</li></ul>	14
<ul style="list-style-type: none"><li>• Operators with similar (dumper / dump truck) 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***

4 candidates : 2 machines: 1 instructor

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### Resources

Practical equipment	Theory equipment
<ul style="list-style-type: none"> <li>• Suitable rear tipping rigid chassis dump truck that meets current legislation</li> <li>• Operator's manual for the machine(s)</li> <li>• Loading machine</li> <li>• Sufficient area of ground for driving / manoeuvring</li> <li>• Slopes and rough terrain</li> <li>• Tipping areas – trenches and edges</li> <li>• Edge protection material</li> </ul> <p><b>PLUS</b></p> <ul style="list-style-type: none"> <li>• Suitable PPE</li> <li>• Risk assessment for all areas where training is occurring</li> </ul>	<ul style="list-style-type: none"> <li>• PUWER 1998 Regulations</li> <li>• HSE GS6</li> <li>• Operator's Manual</li> <li>• Specifications for types of dump trucks</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 some variations, for CPCS training and assessment standards, the descriptions reflect basic core use. Endorsements are sub-categories that reflect the variations for this category by load carrying capacity type. This category has four endorsements.

To identify a machine within this category, a typical rigid chassis dump truck would normally have the listed features and be used within the described characteristics.

Category features	Category characteristics
<ul style="list-style-type: none"> <li>• One-piece chassis containing a front mounted central or sided mounted driving position; power, hydraulic and electrical units</li> <li>• Multi-axled or tracked chassis with mechanical / hydraulic transmission</li> <li>• Rear-tipping sided body to carry materials</li> </ul>	<ul style="list-style-type: none"> <li>• Able to travel in forward and reverse and change direction during travel by steering the axles with some units having all-wheel steer. Tracked units steer via track speed differential</li> <li>• Can travel on uneven and loose ground and slopes</li> <li>• Receives loads by external means and transports up to long distances</li> <li>• Deposits the load (in most cases) by raising the body</li> </ul>

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### Endorsements

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#### Endorsement characteristics

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- **Endorsement A:** Up to 15 tonnes – can carry loads up to this weight
- **Endorsement B:** Up to 50 tonnes – can carry loads up to this weight
- **Endorsement C:** All sizes (wheeled) – can carry unlimited loads
- **Endorsement D:** Tracked – can carry loads up to 20 tonnes