

Outcomes

Through a combination of targeted training and experience, an individual with the forward tipping dumper will be able to:

Roles and responsibilities	<ul style="list-style-type: none">• Describe the nature of the sector of industry and their role and responsibilities as a plant operator
Preparing for work	<ul style="list-style-type: none">• Name and explain the purpose of principal components, the basic construction, controls and terminology• Conform with manufacturer's requirements as per the operator's handbook, other types of information source and relevant regulations and legislation• Undertake all pre-use checks
Travelling and manoeuvring	<ul style="list-style-type: none">• Configure and ready for travel (site and highway)• Travel over rough, undulating ground, steep inclines and level surfaces – loaded and unloaded• Manoeuvre in confined spaces whilst carrying loads
Setting up for work	<ul style="list-style-type: none">• Ensure the suitability of the tipping and loading area• Explain actions required for hazards, underground and overhead services• Position to receive loads
Working tasks	<ul style="list-style-type: none">• Comply with loading procedures• Ensure load integrity and security• Transfer loads to different locations• Discharge loads into trenches and over edges
Completing work	<ul style="list-style-type: none">• Maintain safe and tidy working areas
Shutting down	<ul style="list-style-type: none">• Carry out shut down and securing procedures• Explain the loading and unloading procedures for machine transporting

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Syllabus

Learning outcome	Training content	
<ul style="list-style-type: none"> Describe the nature of the sector of industry and their role and responsibilities as a plant operator 	<ul style="list-style-type: none"> Industry type Customer / client needs Sector contribution Role Reporting structures Social responsibilities Environmental issues 	<ul style="list-style-type: none"> Communication with colleagues / management / other trades Lifelong skills Health and Safety at Work Act Other trades Working practices
<ul style="list-style-type: none"> Name and explain the purpose of principal components, the basic construction, controls and terminology 	<ul style="list-style-type: none"> Differing Types Functions and applications Power units Hydraulic systems Transmissions Chassis / steering / tyres 	<ul style="list-style-type: none"> Stability / ground pressure Carrying capacities Types of skips Side tipping Attachments ROPS
<ul style="list-style-type: none"> Conform with manufacturer's requirements as per the operator's handbook, other types of information source and relevant regulations and legislation 	<ul style="list-style-type: none"> Operator's Manual Machine decals Health and Safety at Work Act PPE Codes of Practice Site plans / drawings 	<ul style="list-style-type: none"> Method statements Load / tare sheets Risk assessments / COSHH Inspection and reporting forms / procedures
<ul style="list-style-type: none"> Undertake all pre-use checks 	<ul style="list-style-type: none"> Regular and non-scheduled maintenance procedures 	<ul style="list-style-type: none"> Sequence of pre-use checks Defect reporting
<ul style="list-style-type: none"> Configure and ready for travel (site and highway) 	<ul style="list-style-type: none"> Driving controls Attachments Security Driving position 	<ul style="list-style-type: none"> Visibility Body position Road Traffic Act
<ul style="list-style-type: none"> Travel over rough, undulating ground, steep inclines and level surfaces – loaded and unloaded 	<ul style="list-style-type: none"> Driving controls Ground conditions Traction / aids Starting / travelling on inclines Hazards Working area 	<ul style="list-style-type: none"> Site travel Stability / C of G Road travel Environment protection / minimise damage
<ul style="list-style-type: none"> Manoeuvre in confined spaces 	<ul style="list-style-type: none"> Visibility / aids Limitations of vision Articulating chassis requirements Personnel 	<ul style="list-style-type: none"> Protection of ground / tight turns Environmental / noise / fumes Hazards

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Syllabus *(continued)*

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

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Syllabus *(continued)*

Learning outcome	Training content	
<ul style="list-style-type: none">• Carry out shut down and securing procedures	<ul style="list-style-type: none">• Skip cleanliness• Shut down procedures	<ul style="list-style-type: none">• Security• Parking and positioning
<ul style="list-style-type: none">• Carry out shut down and securing procedures	<ul style="list-style-type: none">• Compatibility• Positioning	<ul style="list-style-type: none">• Types of transporter• Security

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

Emphasis to be placed on the following topics:

Topic	Emphasis
<ul style="list-style-type: none">• Travelling on inclines	<ul style="list-style-type: none">• Travelling and steering up, down and across inclines
<ul style="list-style-type: none">• Stability with raised skips or uneven ground	<ul style="list-style-type: none">• Checking ground prior to tipping – tipping skip slowly (weight transfer) – procedure for tipping on inclines, changing centres of gravity
<ul style="list-style-type: none">• Excessive travel speeds	<ul style="list-style-type: none">• Appropriate speed in proportion to the conditions, particularly when carrying a load• Travel speeds around corners and on uneven ground• Appreciation of centres of gravity• Mandatory wearing of seat belts

Duration / Ratios

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">• Novice operators with no industry or machine experience	24
<ul style="list-style-type: none">• Novice operators with industry experience but no machine experience	16
<ul style="list-style-type: none">• Operators with unrelated (dumper) machine experience	14
<ul style="list-style-type: none">• Operators with similar (dumper) machine experience	07

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"> • Suitable forward tipping dumper that meets current legislation • Operator’s manual for the machine(s) • Loading machine • Sufficient area of ground for driving • Slopes and rough terrain • Tipping areas – trenches and edges <p>PLUS</p> <ul style="list-style-type: none"> • Suitable PPE • Risk assessment for all areas where training is occurring 	<ul style="list-style-type: none"> • PUWER 1998 Regulations • Codes of Practice • HSE GS6 • Operator’s Manual • Specifications for types of forward tipping dumpers <p>PLUS</p> <ul style="list-style-type: none"> • Suitable room for theory training purposes • Welfare and rest facilities during training

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 chassis type. This category has two endorsements.

To identify a machine within this category, a typical forward tipping dumper would normally have the listed features and be used within the described characteristics.

Category features	Category characteristics
<ul style="list-style-type: none"> • Chassis with the body, power unit, hydraulic and electrical units • Forward-tipping sided body to carry materials 	<ul style="list-style-type: none"> • Able to travel in forward and reverse and change direction during travel by articulating the chassis, via the steering axles or track drive differential • Can travel on uneven and loose ground and slopes • Receives loads by external means, and transports up to long distances • Deposits the load (in most cases) by raising the body

Endorsements

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Endorsement characteristics

- **Endorsement A:** Wheeled – Articulated two-piece chassis with the front section containing the body and rear section containing the power, hydraulic and electrical units or one-piece chassis with steering axles containing all components
- **Endorsement B:** Tracked – Rigid chassis of reversible, crawler, hydraulically-driven tracks for mobility