

Outcomes

Through a combination of targeted training and experience, an individual with the relevant item of plant 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 user
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 manual, 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• Travel the machine over a variety of relevant surfaces and gradients (where applicable)• Travel and manoeuvre in confined spaces• Identify and explain actions required for hazards, underground and overhead services
Setting up for loading and unloading (optional)	<ul style="list-style-type: none">• Ensure the area and transporter are prepared for loading and unloading operations• Configure the machine for manoeuvring onto and off a relevant transporter• Explain the requirements that determine the suitability of the transporter to the machine• Explain how environmental issues can affect the loading and unloading procedure• Explain issues relating to the loading and unloading of plant on or near to the public highway
Loading and unloading (optional)	<ul style="list-style-type: none">• Manoeuvre a relevant machine onto and from a given transporter following given signals• Configure the machine for transport following given instructions• Egress and access the operating position/cab whilst on the transporter
Shutting down	<ul style="list-style-type: none">• Select suitable parking places• Carry out shut down and securing procedures

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 etc. 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 Sizes and weights Function / applications Power units Hydraulic systems Counterweights Chassis / steering / tyres / tracks 	<ul style="list-style-type: none"> Stability Booms / jibs / buckets / blades Safety systems Slewing arrangements Attachments
<ul style="list-style-type: none"> Conform with manufacturer's requirements as per the operator's manual, other types of information source and relevant regulations and legislation 	<ul style="list-style-type: none"> Operator's manual Machine decals PPE Inspection and reporting forms/procedures 	<ul style="list-style-type: none"> Codes of Practice Site plans / drawings Method statements Risk assessments / COSHH Health and Safety at Work etc. Act
<ul style="list-style-type: none"> Undertake all pre-use checks 	<ul style="list-style-type: none"> Types of checks Sequence of pre-use checks 	<ul style="list-style-type: none"> Defect reporting
<ul style="list-style-type: none"> Configure and ready for travel 	<ul style="list-style-type: none"> Driving controls Attachments Security Driving position 	<ul style="list-style-type: none"> Visibility Boom / jib / blade / bucket positioning Stowage of accessories
<ul style="list-style-type: none"> Travel the machine over a variety of relevant surfaces and gradients (where applicable) 	<ul style="list-style-type: none"> Travel routes Slopes / inclines Direction of travel Hazards 	<ul style="list-style-type: none"> Traction Site routes Environment protection / minimise damage

Syllabus *(continued)*

Learning outcome	Training content	
<ul style="list-style-type: none"> • Travel and manoeuvre in confined spaces 	<ul style="list-style-type: none"> • Visibility • Protection of ground / tight turns • Hazards 	<ul style="list-style-type: none"> • Limitations of vision • Environmental / noise / fumes • Chassis overhangs
<ul style="list-style-type: none"> • Identify and explain actions required for hazards, underground and overhead services 	<ul style="list-style-type: none"> • Types of typical services • Warning / identification systems • Typical hazard relevant to travelling and loading activities 	<ul style="list-style-type: none"> • Reporting procedures for damage to services • Minimum distances and clearances • Procedures for dealing with non-identified hazards
<ul style="list-style-type: none"> • Ensure the area and transporter are prepared for loading and unloading duties 	<ul style="list-style-type: none"> • Type of ground • Loading area seclusion • Signage • Transporter positioning • Proximity hazards • Transporter ramps and angles 	<ul style="list-style-type: none"> • Access / egress for machine types • Access / egress to / from transporter bed for machine driver • Access / egress for other traffic / pedestrians • Hazards
<ul style="list-style-type: none"> • Configure the machine for manoeuvring onto and off a relevant transporter 	<ul style="list-style-type: none"> • Attachments / accessories • Security / stowage of component / equipment 	<ul style="list-style-type: none"> • Machine cleanliness / excess spoil • Direction of travel for loading
<ul style="list-style-type: none"> • Explain the requirements that determine the suitability of the transporter to machine type 	<ul style="list-style-type: none"> • Transporter type • Transporter size / weight • Machine type • Machine weight / size / complexity 	<ul style="list-style-type: none"> • Overhang of machine • Traction • Ramps / angles • Chassis / structure clearances
<ul style="list-style-type: none"> • Explain how environmental issues can affect the loading and unloading procedure 	<ul style="list-style-type: none"> • Wet / slippery surfaces • Cold, frost and ice • Limited visibility others nearby 	<ul style="list-style-type: none"> • Visibility – sun glare • Local restrictions to loading / unloading
<ul style="list-style-type: none"> • Explain issues relating to the loading and unloading of plant on or near to the public highway 	<ul style="list-style-type: none"> • Positioning of transporter • Signing / lighting / warning equipment • Visibility for other road users 	<ul style="list-style-type: none"> • Roads and Street Works Act requirements • Area preparation • Driving licence requirements

Syllabus *(continued)*

Learning outcome	Training content	
<ul style="list-style-type: none"> • Manoeuvre a relevant machine onto and from a given transporter following given signals 	<ul style="list-style-type: none"> • Access to and from machine driving position • Machine(s) positioning • Boom / blade / bucket positioning • Signals / communication • Visibility • Loading accessories • Transporter stability 	<ul style="list-style-type: none"> • Traction and traction aids • Machine driving skills • Speeds • Axle loadings • Height restrictions • Machine configuration • Transporter tramp position, angles and clearances
<ul style="list-style-type: none"> • Configure the machine for transport following given instructions 	<ul style="list-style-type: none"> • Positioning of equipment (booms, buckets, blades etc.) • Chocks, supporting components, securing components (using machine movement) • Chassis brakes, articulation locks, slew locks etc. 	<ul style="list-style-type: none"> • Machine shut down procedures • Cab / doors / windows / access panel security • Egress from driving position (working at height) • Egress from transporter bed
<ul style="list-style-type: none"> • Egress from and access the operating position/cab whilst on the transporter 	<ul style="list-style-type: none"> • Safe systems of work • Working at height requirements 	<ul style="list-style-type: none"> • Access / egress planning • Restraining / fall arrest systems
<ul style="list-style-type: none"> • Select suitable parking places 	<ul style="list-style-type: none"> • Access / egress for the driver • Access / egress for surrounding areas 	<ul style="list-style-type: none"> • Ground type • Proximity hazards
<ul style="list-style-type: none"> • Carry out shut down and securing procedures 	<ul style="list-style-type: none"> • Shut down procedures • Security 	<ul style="list-style-type: none"> • Boom / blade / bucket positioning

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

Plant driving – A68

Learning for CPCS



AN **nocn** JOB CARD

Safety critical

Emphasis to be placed on the following topics:

Topic	Emphasis
<ul style="list-style-type: none">• Access and egressing the driving position when on the transporter	<ul style="list-style-type: none">• Methods to reduce/minimise the risk of falling when leaving the driving position on the transporter and accessing the transporter bed and machine driving positioning for unloading
<ul style="list-style-type: none">• Manoeuvring	<ul style="list-style-type: none">• Facing the direction of travel and no reversing unless authorised by a nominated vehicle marshaller

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 machine driving experience	14
<ul style="list-style-type: none">• Operators with unrelated chassis type experience	4
<ul style="list-style-type: none">• Operators with similar chassis type experience	2

Learning durations for loading and unloading should require an additional three hours.

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

3 candidates : 1 machine: 1 instructor

Resources

Practical equipment	Theory equipment
<ul style="list-style-type: none"> • Relevant transporter and/or trailer • Relevant tracked and/or wheeled type plant • Operator’s manual for the type of plant • Sufficient area of ground suitable for manoeuvring and (where relevant) loading / unloading • Equipment for area segregation <p>PLUS</p> <ul style="list-style-type: none"> • Suitable PPE • Risk assessment for driving and loading/unloading (where relevant) 	<ul style="list-style-type: none"> • PUWER 1998 Regulations* • Road Traffic Act • Construction and Use Regulations • HSE GS6 • DfT Code of Practice – Safety of Loads on Vehicles* • DVLA INF52 – Driving Large Vehicles* • CPS/HSE Guidance on Working at Height Loading and Unloading Transport* • Operator’s Manual(s) • Specifications for types of transporters and common type of relevant construction plant <p>PLUS</p> <ul style="list-style-type: none"> • Suitable room for theory training purposes • Welfare and rest facilities during training <p>* These documents are downloadable free of charge from the relevant organisations website.</p>

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. This category is defined as a duty of an individual involved with the movement of plant and equipment.

Endorsements are sub-categories that reflect the variations for this category by chassis type and weight. This category has 20 endorsements divided by chassis groups and activity requirements.

Duties

To prepare, start, drive and manoeuvre, park and stop a machine type from within an endorsement group (listed below). Additionally there is the option to prepare the machine for loading or unloading, load the item of plant onto and off the trailer and configure the machine for transport. The individual is expected to have some understanding of the legislative and regulative requirements for transporting loads on the public highway.

Endorsements

Groups and endorsement descriptions

- **Groups:**

- Chassis – grouped by chassis type to reflect common driving skills for a range of plant within each group.
- Non-operational only - restricted to starting, manoeuvring, stopping and parking a relevant machine within the endorsement group.
- Loading and unloading - able to drive, position and configure for transport a relevant machine from the endorsement group onto and off a transporter vehicle

- **Endorsements:**

Code	Description on Card
A	Tracked boom equipped up to 10 t Non-operational
B	Tracked boom equipped up to 10 t Load/unloading
C	Tracked boom equipped up to 50 t Non-operational
D	Tracked boom equipped up to 50 t Load/unloading
E	Tracked boom equipped all sizes Non-operational
F	Tracked boom equipped all sizes Load/unloading
G	Tracked blade/shovel up to 20 t Non-operational
H	Tracked blade/shovel up to 20 t Load/unloading
I	Tracked blade/shovel all sizes Non-operational
J	Tracked blade/shovel all sizes Load/unloading
K	Wheeled articulated chassis up to 15 t Non-operational
L	Wheeled articulated chassis up to 15 t Load/unloading
M	Wheeled articulated chassis all sizes Non-operational
N	Wheeled articulated chassis all sizes Load/unloading
O	Wheeled rigid chassis up to 15 t Non-operational
P	Wheeled rigid chassis up to 15 t Load/unloading
Q	Wheeled rigid chassis all sizes Non-operational
R	Wheeled rigid chassis all sizes Load/unloading
S	Ride-on Roller Non-operational
T	Ride-on Roller Load/unloading