

Lorry loader – A36

Learning for CPCS



Outcomes

Through a combination of targeted training and experience, an individual with the lorry loader 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"> 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 Explain all relevant documentation Undertake all pre-use checks on the host vehicle and loader crane
Travelling and manoeuvring	<ul style="list-style-type: none"> Configure the vehicle and loader crane ready for travel Travel the vehicle to an area of work Manoeuvre in confined spaces
Setting up for work	<ul style="list-style-type: none"> Position and configure the vehicle and loader crane for lifting duties Deploy the stabilisers to specification Explain action required for hazards, underground and overhead services
Working tasks	<ul style="list-style-type: none"> Programme / set-up and/or comply with Rated Capacity Indicators or Load Moment Indicators for lifting duties Identify weights and centres of gravity of loads Lift various loads using the full radius and slewing capabilities of the loader crane Place loads accurately at designated positions including on/into and from the vehicle Explain the use of, types and fitting of boom extensions Minimise the swinging of loads Secure loads on or in the vehicle Explain different types of lifting accessories compatible with loader crane use Maintain safe working situations
Shutting down	<ul style="list-style-type: none"> Carry out shut down and securing procedures

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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 Lifelong skills Working practices Social responsibilities 	<ul style="list-style-type: none"> Communication with colleagues / management / other trades Health and Safety at Work Act Environmental issues Other trades
<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 Chassis / steering / tyres 	<ul style="list-style-type: none"> Stability Booms / jibs / extensions Transmissions Safety systems Slewing arrangements Attachments / extensions
<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 Duties / load rating plates and charts Ground loading charts Machine decals Health and Safety at Work Act PPE Codes of Practice Lift plans 	<ul style="list-style-type: none"> Site plans / drawings Method statements Lifting requirements / limitations / restrictions of lorry loaders Risk assessments / COSHH Inspection and reporting forms / procedures
<ul style="list-style-type: none"> Explain all relevant documentation 	<ul style="list-style-type: none"> Test certificates 	<ul style="list-style-type: none"> Thorough examination certificates
<ul style="list-style-type: none"> Undertake all pre-use checks on the host vehicle and loader crane 	<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 the vehicle and loader crane ready for travel 	<ul style="list-style-type: none"> Driving controls Attachments Security Driving position 	<ul style="list-style-type: none"> Travel configuration Visibility Road Traffic Act

Syllabus *(continued)*

Learning outcome	Training content	
<ul style="list-style-type: none"> • Travel the vehicle to an area of work 	<ul style="list-style-type: none"> • Driving controls • Ground conditions • Traction • Axle loadings • Hazards 	<ul style="list-style-type: none"> • Working area • Site route • Environment protection / minimise damage • Road travel
<ul style="list-style-type: none"> • Manoeuvre in confined spaces 	<ul style="list-style-type: none"> • Visibility • Limitations of vision • Height restrictions • Hazards 	<ul style="list-style-type: none"> • Protection of ground / tight turns • Environmental / noise / fumes
<ul style="list-style-type: none"> • Position and configure the vehicle and loader crane for lifting duties 	<ul style="list-style-type: none"> • Vehicle positioning • Required configuration (lift plan) • Environmental conditions 	<ul style="list-style-type: none"> • Crane controls • Levelling / inclines • Hazards
<ul style="list-style-type: none"> • Deploy the stabilisers to specification 	<ul style="list-style-type: none"> • Types of stabilisers • Support conditions • Bearing pressure 	<ul style="list-style-type: none"> • Packing / load spreading • Footprint • Inclines / uneven ground
<ul style="list-style-type: none"> • Explain action 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"> • Programme / set-up and/or comply with Rated Capacity Indicators or Load Moment Indicators for lifting duties 	<ul style="list-style-type: none"> • Types of RCI / LMI • Regulations / legislation • Principles of operation • Lifting duties 	<ul style="list-style-type: none"> • Function and application of common types • Testing, setting / programming for different duties
<ul style="list-style-type: none"> • Identify weights and centres of gravity of loads 	<ul style="list-style-type: none"> • Load / material types • Centre of gravity • Load integrity • Load density and shapes 	<ul style="list-style-type: none"> • Moisture content • Information sheets / load markings

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Syllabus (continued)

Learning outcome	Training content	
<ul style="list-style-type: none"> Lift various loads using the full radius and slewing capabilities of the loader crane 	<ul style="list-style-type: none"> Duties / load charts Lifting accessories, buckets and grabs Lift plans Lifting controls Operator positioning Signalling procedures Hazards 	<ul style="list-style-type: none"> Vehicle stability Trial lifts Load stability / security Visibility Environmental conditions Load swings Boom deflection
<ul style="list-style-type: none"> Place loads accurately at designated positions and on/into and from the vehicle 	<ul style="list-style-type: none"> Ground conditions / hazards Visibility Weight distribution Stability Lift Complexity 	<ul style="list-style-type: none"> Signalling / following instructions Load swings Protection of lifting accessories Appointed Person/lift planning
<ul style="list-style-type: none"> Explain the use of, types and fitting of boom extensions 	<ul style="list-style-type: none"> Types and applications Attaching procedures 	<ul style="list-style-type: none"> Duties / RCI set-up
<ul style="list-style-type: none"> Minimise the swinging of loads 	<ul style="list-style-type: none"> Accessories Techniques Slew speeds 	<ul style="list-style-type: none"> Observation / anticipation Stability
<ul style="list-style-type: none"> Secure loads on or in the vehicle 	<ul style="list-style-type: none"> Weight distribution Stability Securing / restraining gear 	<ul style="list-style-type: none"> Securing procedures Road Traffic Act Visibility Hazards
<ul style="list-style-type: none"> Explain different types of lifting accessories compatible with loader crane use 	<ul style="list-style-type: none"> Types of accessories Uses Limitation of different types 	<ul style="list-style-type: none"> Certification Pre-use checks Slings training
<ul style="list-style-type: none"> Maintain safe working situations 	<ul style="list-style-type: none"> Stability Load security 	<ul style="list-style-type: none"> Hazards
<ul style="list-style-type: none"> Carry out shut down and securing procedures 	<ul style="list-style-type: none"> Shut down procedures Parking and positioning 	<ul style="list-style-type: none"> 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"> Lift Plans / Method statements 	<ul style="list-style-type: none"> Lift plan types and requirements and the need for lift planning. Adherence to the lift plan as constructed by a competent person
<ul style="list-style-type: none"> Stabilisers 	<ul style="list-style-type: none"> Security of stabilisers when travelling and full extension of stabilisers during lifting duties
<ul style="list-style-type: none"> Height Indicators 	<ul style="list-style-type: none"> Use, legal requirements and locations of height indicators

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 	35
<ul style="list-style-type: none"> Novice operators with industry experience but no machine experience 	28
<ul style="list-style-type: none"> Operators with unrelated (lifting) machine experience 	21
<ul style="list-style-type: none"> Operators with similar (lifting) machine experience 	7
<p>All candidates must have received the equivalent to 7 hours of site safety and induction training</p>	

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"> • Host vehicle and loader crane that meet current legislation • Operator’s manual for the vehicle and crane • Different types of loads • Lifting accessories • Sufficient area of ground suitable for placing loads at various heights and radius • Boom extension <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 • LOLER 1998 Regulations • HSE GS6 • BS 7121 (parts 1, 2 and 4) • Operator’s Manual • Specifications for types of lorry loader cranes <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, for CPCS training and assessment standards, the descriptions reflect basic core use. Endorsements are sub-categories that reflect the variations for this category by duties. This category has three endorsements.

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

Category features	Category characteristics
<ul style="list-style-type: none"> • Multi-axled host light or heavy commercial vehicle chassis containing a driving cab, power, hydraulic and electrical units, and load-carrying bed • Rotating multi-sectioned boom, all hydraulically operated • Side mounted controls or loader-mounted operator position, some with remote operation ability • Hook block or other attachment at the end of the boom • Extendable sections to increase operating radius • Chassis mounted stabilisers at each side 	<ul style="list-style-type: none"> • Able to travel in forward and reverse and change direction during travel by steering the front axle • Travels on hard surfaces with some types having limited off-road capability • Lift loads by raising the boom through an arc • Moves and places loads by using a combination of slew and boom raising / lowering motions within the confines of the operating radius, depth and height • Restricted (by legislation) to loading or unloading goods etc. to and from the host vehicle bed

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Endorsements

Endorsement features

Endorsement characteristics

- **Endorsement A:** Hook – loads connected to boom mounted hook via lifting accessories
- **Endorsement B:** Clamshell Bucket – boom mounted bucket to load / unload loose materials / soils / aggregates etc.
- **Endorsement C:** Hydraulic Clamp – boom mounted clamp to load / unload solid loads i.e. brick stacks