

TCA Lifting – Training Overview

Compact Crane • CPCS A66



TCA Lifting Ltd
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Overview

A trained operator is an important factor in the safe and efficient use of plant and equipment. Training is defined as the accumulation of skills and knowledge, and forms an integral part of the individual's learning process. Training can be divided into two areas – Basic and Advanced.

Basic training covers theoretical and practical principles detailed in the Learning Outcomes. Basic training, wherever it occurs, should take place independent of productive work using dedicated equipment and resources. Advanced training can take place during productive work, but following a managed supervision.

TCA Lifting have many years experience in the use and repair of a wide range of compact and mobile cranes. This experience combined technical knowledge allows us to offer excellent practical training which both meets the requirements of the CPCS A66 syllabus but also gives real skills for future careers operating compact cranes.

Training Attributes

*To help candidates in learning the necessary skills for this category, it would be ideal if they possess one or more of the following:

- Construction or related experience
- Driving licence or driving experience
- Able to calculate basic formula
- Able to record basic details
- Understand basic written words
- Have received site safety and induction training
- Possess good eye and hand co-ordination
- Have mechanical appreciation
- Medically able to operate machinery (including eyesight)

*Please note that lack of any of these attributes does not prevent anyone from being trained for this category

Duration/Ratio's

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.



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Experience	Recommended Training Hours
Novice operators with no industry or machine experience	35
Novice operators with industry experience but no machine experience	21
Operators with unrelated (lifting) machine experience	14
Operators with similar (lifting) machine experience	7
All candidates must have received the equivalent to 7 hours of site safety and induction training	
For effective learning, the maximum recommended candidate / machine / instructor ratio for this category is: 3 candidates : 1 machine : 1 instructor	

Outcomes

Through a combination of targeted training & experience, an individual with a compact crane will be able to:

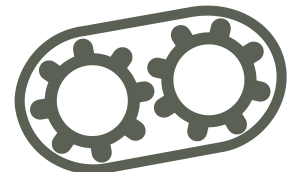
Roles and responsibilities	<ul style="list-style-type: none"> Describe the nature of the sector of industry and their role and responsibilities as a plant operator
Preparing for work	<ul style="list-style-type: none"> Name and explain the purpose of principal components, the basic construction, controls and terminology Conform with manufacturer's requirements as per the operator's handbook, other types of information source and relevant regulations and legislation Explain all relevant documentation Undertake all pre-use checks
Travelling & manoeuvring	<ul style="list-style-type: none"> Configure and set for travel Travel the crane to the work area Manoeuvre in confined spaces
Setting up for work	<ul style="list-style-type: none"> Configure the crane for lifting duties Programme / set-up Rated Capacity Indicators or Load Moment Indicators for lifting duties Identify weights and centres of gravity of loads Deploy outriggers to specification (where applicable) Explain the function use and limitations of jib extensions Explain action required for hazards, underground and overhead services



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TCA LIFTING

Working tasks	<ul style="list-style-type: none"> • Lift various loads using the full radius and slewing or steering capabilities of the crane • Accurately place loads • Minimise the swinging of loads • Comply with signals and instructions • Move loads through machine travel (relevant endorsements only) • List different types of lifting accessories compatible with compact crane use, and explain the limitations of slinging with compact cranes
Shutting down	<ul style="list-style-type: none"> • Carry out shut down and securing procedures • Explain loading and unloading procedures for machine transporting, procedures for lifting and/or towing

Category Description & 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 four endorsements.

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

Category Features

- Towed or self-propelled wheeled or tracked chassis containing (in most cases) power, hydraulic and electrical units
- Multi-sectioned extending boom, all hydraulically operated
- Up to 10 tonne lifting capacity

Category Characteristics

- Compact in size
- Able to travel in forward and reverse and change direction during travel by steering the axles, tracks or towed by prime mover
- Lift loads by raising the hook
- Moves and places loads using various means as per the endorsement type



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Endorsement characteristics

• **Endorsement A:** Static-stabilisers – minimum of four outriggers extended, with a winch-operated metal-stranded hoist rope mounted on pulleys. Hook block suspended by hoist ropes and pulleys at the end of the boom. Places loads by using a combination of slew and linear motions within the confines of the operating radius, depth and height.



• **Endorsement B:** Mobile industrial– non-slewing, able to travel with a suspended load using forward to reverse direction, travels on hard surfaces with some types having off-road capability. Places loads by travelling.



• **Endorsement C:** Luffing static— trailer-mounted telescopic boom with luffing unit, hydraulically operated.



• **Endorsement D:** 360 Pick and carry – Winch-operated metal-stranded hoist rope mounted on pulleys. Hook block suspended by hoist ropes and pulleys at the end of the boom. Places loads by using a combination of 360 slew and linear motions within the confines of the operating radius, depth and height. Able to travel with a suspended load using forward to reverse direction.



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