

# Agricultural tractor – A33

## Learning for CPCS



### Outcomes

---

Through a combination of targeted training and experience, an individual with the agricultural tractor 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 ready for site and highway travel</li><li>• Travel over rough, undulating ground, substantial inclines and level surfaces with mounted and trailed implements</li><li>• Manoeuvre in confined spaces with trailed and mounted implements</li></ul>
<b>Setting up for work</b>	<ul style="list-style-type: none"><li>• Attach and set trailed implements ready for work</li><li>• Attach and set mounted implements ready for work</li><li>• Attach and set power take-off drives ready for work</li><li>• Explain actions required for hazards, underground and overhead services</li></ul>
<b>Working tasks</b>	<ul style="list-style-type: none"><li>• Operate a mounted or power-driven implement</li></ul>
<b>Completing work</b>	<ul style="list-style-type: none"><li>• Remove and store trailed and mounted implements</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>

# Agricultural tractor – A33

## Learning for CPCS

### 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>ROPS / FOPS</li> </ul>	<ul style="list-style-type: none"> <li>Chassis / steering / brakes</li> <li>Stability ground pressure</li> <li>Safety systems</li> <li>Slewing arrangements</li> <li>Attachments</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> </ul>	<ul style="list-style-type: none"> <li>Site plans / drawings</li> <li>Method statements</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 ready for site and highway travel</li> </ul>	<ul style="list-style-type: none"> <li>Driving controls</li> <li>Attachments / accessories</li> <li>Travel position</li> </ul>	<ul style="list-style-type: none"> <li>Site travel</li> <li>Visibility</li> <li>Road travel / Road Traffic Act</li> </ul>
<ul style="list-style-type: none"> <li>Travel over rough, undulating ground, substantial inclines and level surfaces with mounted and trailed implements</li> </ul>	<ul style="list-style-type: none"> <li>Travel routes</li> <li>Slopes / inclines</li> <li>Direction of travel</li> <li>Traction / aids</li> <li>Ground conditions</li> </ul>	<ul style="list-style-type: none"> <li>Hazards</li> <li>Working area</li> <li>Restarting on inclines</li> <li>Environment protection / minimise damage</li> </ul>
<ul style="list-style-type: none"> <li>Manoeuvre in confined spaces with trailed and mounted implements</li> </ul>	<ul style="list-style-type: none"> <li>Visibility</li> <li>Limitations of vision</li> <li>Protection of ground / tight turns</li> </ul>	<ul style="list-style-type: none"> <li>Environmental / noise / fumes</li> <li>Height restrictions</li> </ul>

# Agricultural tractor – A33

## Learning for CPCS

### Syllabus (continued)



Learning outcome	Training content	
<ul style="list-style-type: none"> <li>• Attach and set trailed implements ready for work</li> </ul>	<ul style="list-style-type: none"> <li>• Implement types</li> <li>• Implement / tractor compatibility</li> <li>• Hitch controls</li> <li>• Drawbar types / hitch types</li> <li>• Hazards</li> </ul>	<ul style="list-style-type: none"> <li>• Connecting procedures</li> <li>• Implement stability and security</li> <li>• Securing procedures</li> <li>• Road travel / Road Traffic Act</li> </ul>
<ul style="list-style-type: none"> <li>• Attach and set mounted implements ready for work</li> </ul>	<ul style="list-style-type: none"> <li>• Implement types</li> <li>• Implement / tractor compatibility</li> <li>• Lift arms controls</li> <li>• Hitch types / 3-point system</li> <li>• Connecting procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Securing procedures</li> <li>• Levelling procedures</li> <li>• Implement stability and security</li> <li>• Hazards</li> <li>• Road travel / Road Traffic Act</li> </ul>
<ul style="list-style-type: none"> <li>• Attach and set power take-off drives ready for work</li> </ul>	<ul style="list-style-type: none"> <li>• PTO types and speeds</li> <li>• Implement / tractor compatibility</li> <li>• PTO controls</li> <li>• Guarding</li> <li>• Starting / stopping procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Connecting procedures</li> <li>• Implement stability and security</li> <li>• Hazards</li> <li>• Road travel / Road Traffic Act</li> <li>• Securing procedures</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>• Types of typical services</li> <li>• Warning / identification systems</li> </ul>	<ul style="list-style-type: none"> <li>• Reporting procedures for damage to services</li> <li>• Minimum distances and clearances</li> </ul>
<ul style="list-style-type: none"> <li>• Operate a mounted or power-driven implement</li> </ul>	<ul style="list-style-type: none"> <li>• Operating controls</li> <li>• Working area</li> <li>• Working procedures and efficiency</li> </ul>	<ul style="list-style-type: none"> <li>• Hazards</li> <li>• Environment protection / noise</li> </ul>
<ul style="list-style-type: none"> <li>• Remove and store trailed and mounted implements</li> </ul>	<ul style="list-style-type: none"> <li>• Implement positioning</li> <li>• Removing / disconnecting procedures</li> <li>• Implement protection</li> </ul>	<ul style="list-style-type: none"> <li>• Implement stability and security</li> <li>• Environmental protection</li> </ul>
<ul style="list-style-type: none"> <li>• Carry out shut down and securing procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Shut down procedures</li> <li>• Security</li> </ul>	<ul style="list-style-type: none"> <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>• Security</li> <li>• Types of transporter</li> </ul>

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

# Agricultural tractor – A33

## Learning for CPCS

### Safety critical



Emphasis to be placed on the following topics:

Topic	Emphasis
<ul style="list-style-type: none"><li>• Power take-off (PTO) systems</li></ul>	<ul style="list-style-type: none"><li>• Manufacturer's procedures must be strictly adhered to. Full security of the driving shaft to the tractor and implement and all guarding in place and secure before operations</li></ul>

### 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"><li>• Novice operators with no industry or machine experience</li></ul>	28
<ul style="list-style-type: none"><li>• Novice operators with industry experience but no machine experience</li></ul>	21
<ul style="list-style-type: none"><li>• Operators with unrelated (tractor) machine experience</li></ul>	14
<ul style="list-style-type: none"><li>• Operators with similar (tractor) 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

# Agricultural tractor – A33

## Learning for CPCS

### Resources



Practical equipment	Theory equipment
<ul style="list-style-type: none"><li>• Agricultural type tractor that meets current legislation</li><li>• Operator's manual for the machine(s)</li><li>• Compatible trailed, mounted and PTO driven implements</li><li>• Sufficient area of ground suitable for driving and manoeuvring</li><li>• Slopes and rough terrain</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 agricultural tractors</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 many attachments, for CPCS training and assessment standards, the descriptions reflect basic core use.

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

Category features	Category characteristics
<ul style="list-style-type: none"><li>• Multi-axled wheeled and tracked chassis containing central operating position, power, transmission, hydraulic and electrical units</li><li>• Rear-mounted hitch arms all hydraulically operated</li><li>• Rear-positioned PTO drive system</li><li>• Rear-mounted drawbar / trailer hitch facility</li></ul>	<ul style="list-style-type: none"><li>• Able to travel in forward and reverse and change direction during travel with most types having all-wheel drive</li><li>• Can travel and operate on uneven and loose ground and slopes</li><li>• Carry out work using a multitude of trailed or mounted implements</li><li>• Can provide power to attached or non-attached implements or equipment by the PTO and hydraulic system</li></ul>