

# 180° Excavator



## At a glance...

### Assessment Only Competence with Modules

**Duration Notes:** The expected duration for the course is half a day, however please note this may vary according to factors such as level of experience, modules or attachments selected, or the ratio of Instructors to Learners.

**Delivery Method:** Practical observation and assessment

## Introduction

Becoming proficient in operating this machinery is an essential and valued operator's skill for any contract, large or small.

## Overview in brief

This course will test your knowledge and confidence to safely operate the machine, protecting both you and those around you.

This course offers a range of certificate options depending on your needs:

- Below five tonnes
- Above five tonnes
- Excavators used as cranes.

## The finer details

This assessment course has been developed to assess your knowledge and understanding of how to operate a 180° excavator safely.

The course duration will depend on the number of learners requiring assessment and will be from half a day to one day.

The assessment will consist of a multiple choice question paper and practical assessment using the machine. Assessment will cover:



- Plant Safety and the Law
- Machine Knowledge and Preparation for Work
- Travelling and Manoeuvring the Machine
- Machine Operation
- Excavators used as cranes (optional).



If successful in meeting the required standards assessed, you will be awarded a certificate of competence and a Lantra skills ID card for your chosen certificate option.

## Who should attend?

This course is for you if you need to prove your ability in safely operating a 180° excavator or renew your Lantra Skills card.

As you'll appreciate, this course contains some practical activity that will require a minimum level of fitness. If you have any concerns, please speak to the Provider.

## What will be covered?

At the end of this course, you will have proved your ability to:

- Describe the key requirements of health, safety and environmental legislation
- Interpret and comply with drawings, specifications, schedules, risk assessments and manufacturers' operator's manuals (MOMs) related to the plant or machinery operations and the work to be carried out
- Identify the hazards associated with plant or machinery operations and put the appropriate control measures in place
- Identify and explain the purpose of machine components and operator controls
- Conduct all operational and pre-start checks
- Prepare the excavator for site and highway travel
- Drive the excavator safely over varying types of terrain
- Operate the excavator safely in restricted spaces
- Prepare the backhoe and bucket to excavate
- Demonstrate how to safely attach and remove different types of buckets and ancillaries
- Select the appropriate backhoe/loader techniques to perform essential tasks
- Operate plant and machinery to excavate ground and loose materials to given work instructions
- Perform excavation activities in a variety of soil types
- Demonstrate how to safely place spoil into transporting vehicles
- Demonstrate how to grade, spread and level different types of material
- Demonstrate how to lift basic suspended loads with backhoe in set configuration(s)
- Shut down and secure plant or machinery
- Describe the procedures used for loading and unloading excavators when transported on a trailer.





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T 02476 696 996

Lantra, Lantra House, Stoneleigh Park,



[@LantraUK](https://twitter.com/LantraUK)

E [sales@lantra.co.uk](mailto:sales@lantra.co.uk)

Coventry, Warwickshire, CV8 2LG