

C231 Provide ground and substructure conditions for sport/play facilities

Introduction

Summary

This unit is about contouring of sites to required levels using hand and mechanical methods and preparing for and installing underground services, such as drainage and conduits.

The unit is divided into three parts. The first part gives some examples and explanations of some words we use in the unit. The second part describes the two things you have to do. These are:

C231.1 Modify ground levels and characteristics

C231.2 Prepare for and install underground services

The third part describes the knowledge and understanding you must have.

Target Group

This unit is for operatives working in the sports surfaces installation and maintenance industry.

Linked Units

This unit links closely to units A513, C224 and C241.

C231 Provide ground and substructure conditions for sport/play facilities

What We Mean By Some of the Words Used in this unit

Accepted practices

for example, British Standard Code of Practice, methods laid down by the public authority

Components

for example, plastic drain pipes, marker tiles for electric cables, manhole rings

Service conduit

for example, plastic ducting, fireclay pipes, pre-cast concrete ducts.

Underground services

for example, drainage, or water pipes

C231 Provide ground and substructure conditions for sport/play facilities

C231.1

Modify ground levels and characteristics

The National Standard

What you must do

To meet the national standard, you must:

- 1 make sure ground levels follow the specifications you are given
- 2 make sure ground characteristics follow the specifications you are given
- 3 carry out **modifications** using agreed work practices, tools, equipment and **techniques**
- 4 protect yourself, others and the environment from hazards
- 5 minimise damage to the surrounding area

What you must cover

This element covers the following types of:

a **modification**

- 1 excavation
- 2 filling
- 3 levelling
- 4 grading
- 5 compacting

b **techniques**

- 1 by hand
- 2 mechanical

C231 Provide ground and substructure conditions for sport/play facilities

C231.2

Install underground services

The National Standard

What you must do

To meet the national standard, you must:

- 1 install **underground services** so that they conform to specified lines and levels
- 2 use **components** that meet agreed specifications
- 3 assemble and join **components** following accepted practice and manufacturer's instructions
- 4 reinstate the ground so that it meets specifications
- 5 protect yourself, others and the environment from hazards

What you must cover

This element covers the following types of:

- a underground services**
 - 1 surface water drainage
 - 2 service conduit
- b components**
 - 1 conduits
 - 2 closed drainage systems
 - 3 land drainage systems
 - 4 inspection chambers and covers

C231 Provide ground and substructure conditions for sport/play facilities

What you must know and understand

To be competent in this unit, you must know and understand the following

- K1 techniques for contouring ground levels
- K2 types of ground characteristics
- K3 relevant statutory regulations
- K4 methods of obtaining/reinstating ground characteristics
- K5 methods of compaction
- K6 methods of excavating and backfilling for underground services
- K7 methods of providing safe working conditions in excavations
- K8 methods of obtaining lines and levels for the installation of underground services
- K9 types of underground services
- K10 methods of joining and assembling/constructing components
- K11 relevant building and statutory regulations
- K12 methods of reinstating ground conditions