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## Overview

This unit is concerned with carrying out tests and presenting the results. It is about getting the tests done, and being responsible for them. You must be able to confirm the scope of the work and the methods that you will use, to obtain the necessary permissions, to prepare a plan for the testing, and to carry out the tests to plan and within budget.

It is about presenting the test results and sharing the information. You must be able to process the test result to pull them together into a competent report, and to present the report to the stakeholders.

**Performance criteria**

*You must be able to:*

**Confirm and monitor tests**

- P1 confirm the **objectives** and **purpose** of the **testing**
- P2 collate existing information and identify where it meets the **objectives** and **purpose** of the **testing**
- P3 confirm relevant test **processes** and **methods**
- P4 seek and obtain **permission** to carry out the **test** from people who might be affected and from any legal authorities who have to be notified
- P5 confirm suitable quality assurance standards and **health and safety requirements**
- P6 prepare a **plan** for the **test** and schedule it to meet the **objectives and purpose** of the **test**
- P7 monitor **tests** and recommend modifications to maintain compliance with **test** requirements

**Present test results**

*You must be able to:*

- P8 collect and verify results from tests
- P9 process the results using the most appropriate **methods of analysis** and chart them in a format that will help people to use them
- P10 use the test results to produce an accurate report which identifies development constraints, opportunities and feasibility
- P11 **present** the report including a commentary on the results

## Knowledge and understanding

*You need to know and understand:*

### Confirm and monitor tests

- K1 how to confirm the **objectives** and **purpose** of the **testing** (application)
- K2 how to collate existing information (application)
- K3 how and why to identify where existing information meets the **objectives** and **purpose** of **testing** (synthesis)
- K4 how and why to confirm relevant test **processes** and **methods** (application)
- K5 how to seek and obtain **permission** to carry out the **test** from people who might be affected and from any legal authorities who have to be notified (application)
- K6 how to confirm suitable standards of quality assurance and **health and safety requirements** (application)
- K7 how and why to prepare a **plan** for the **test** (synthesis)
- K8 how and why to schedule a **plan** for the **test** (analysis)
- K9 how to monitor **tests** (application)
- K10 how and why to recommend modifications to **tests** to maintain compliance with **test** requirements (synthesis)

### Present test results

*You need to know and understand:*

- K11 how to collect results from tests (application)
- K12 how and why to verify results from tests (analysis)
- K13 how to process the results using the most appropriate **methods of analysis** and chart them in a format that will help people to use it (analysis)
- K14 how to use the test results to produce an accurate report which identifies development constraints, opportunities and feasibility (application)
- K15 how to **present** the report and commentary (application)

**Scope/range**

**Confirm and monitor tests**

- 1 Objectives:
  - 1.1 geographical
  - 1.2 structural
  - 1.3 environmental
  - 1.4 material
- 2 Purpose:
  - 2.1 performance
  - 2.2 routine
  - 2.3 contingency
- 3 Test:
  - 3.1 physical
  - 3.2 condition
  - 3.3 performance
  - 3.4 destructive
  - 3.5 non-destructive
  - 3.6 qualitative
  - 3.7 quantitative
  - 3.8 environmental
  - 3.9 materials
- 4 Processes:
  - 4.1 as defined by relevant legislation
  - 4.2 code of practice as accepted by recognised authorities in the field
- 5 Methods:
  - 5.1 visual
  - 5.2 approximate estimated
  - 5.3 detailed assessment of specified features
- 6 Permission from:
  - 6.1 client
  - 6.2 site owner and occupiers
  - 6.3 occupiers
  - 6.4 adjoining owners and occupiers
  - 6.5 notifiable authorities

**Scope/range**

- 7 Health and safety requirements:
  - 7.1 personal safety equipment and clothing
  - 7.2 safe use of access equipment (including ladders, tower scaffolds, hydraulic hoists)
  - 7.3 industry codes of practice and regulations
  - 7.4 identified by risk assessments
- 8 Plans - will include:
  - 8.1 risk assessment
  - 8.2 arrangements for waste disposal
  - 8.3 dealing with contingencies
  - 8.4 timescale
  - 8.5 budget

**Present test results**

- 9 Methods of analysis:
  - 9.1 comparison with standard test results
  - 9.2 referenced to accepted principles and practice
- 10 Present:
  - 10.1 orally
  - 10.2 in writing
  - 10.3 graphically
  - 10.4 electronically

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Monitor tests and present reports in built environment design



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**Relevant occupations** Civil engineers; graphic designers; architectural technologists, town planning technicians; draughtspersons; building surveyors

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**Suite** Built Environment Design

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