

COSBEDO14

Investigate and produce integrated conservation, repair and maintenance solutions



Overview

This unit is about researching information relevant to the conservation, repair and maintenance of assets. This includes researching the potential impact of modern technology and repair methods on assets and identifying possible situations where incompatibility of the use of materials can be detrimental to the future of the asset. You will also need to provide decision makers with relevant information to enable them to agree a detailed design solution

COSBEDO14

Investigate and produce integrated conservation, repair and maintenance solutions

Performance criteria

- You must be able to:*
- P1 obtain information relevant to the conservation, repair and maintenance briefs and identify the relevant solutions
 - P2 obtain alternative sources of information and solutions, where existing approaches do not meet the parameters of the brief, which have the potential to offer alternative approaches
 - P3 research the potential impact of modern technology and repair methods on factors relating to assets
 - P4 identify possible situations where incompatibility of the use of materials can be detrimental to the future of the asset
 - P5 provide decision makers with enough relevant and accurate information at the right time to enable them to agree a detailed solution seeking guidance from experts where necessary

COSBEDO14

Investigate and produce integrated conservation, repair and maintenance solutions

Knowledge and understanding

You need to know and understand:

- K1 how to obtain information relevant to the conservation, repair and maintenance briefs (application)
- K2 what to identify as the relevant solutions (understanding)
- K3 how to obtain alternative sources of information and solutions, where existing approaches do not meet the parameters of the brief, which have the potential to offer alternative approaches (application)
- K4 how and why to research the potential impact of modern technology and repair methods on factors relating to assets (analysis)
- K5 what to identify as possible situations where incompatibility of the use of materials can be detrimental to the future of the asset (understanding)
- K6 how to provide decision makers with enough relevant and accurate information at the right time to enable them to agree a detailed solution (application)

COSBEDO14

Investigate and produce integrated conservation, repair and maintenance solutions

Additional Information

Scope/range

1. Identify:

- 1.1. relevant processes and procedures
- 1.2. investigative research
- 1.3. official bodies to be consulted

2. Alternative sources of information and solutions:

- 2.1. previous knowledge and experience of similar work
- 2.2. solutions proposals by others to similar problems
- 2.3. specialists including experienced craftspeople & conservators
- 2.4. industry, academic, scientific research and innovation

3. Factors:

- 3.1. physical
- 3.2. technical
- 3.3. environmentally induced decay
- 3.4. social pressures use
- 3.5. aesthetic & spatial
- 3.6. assessments of cultural significance and value
- 3.7. protection of archaeological, architectural, cultural and historically valuable resources
- 3.8. cost budgeting
- 3.9. time programming
- 3.10. health and safety
- 3.11. resources (people, skills, finance, materials, plant, knowledge)
- 3.12. relevant quality standards and codes of practice
- 3.13. materials sourcing & matching
- 3.14. fitness of purpose

COSBEDO14

Investigate and produce integrated conservation, repair and maintenance solutions

Developed by ConstructionSkills

Version number 2

Date approved November 2012

Indicative review date July 2019

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN COSBEDO14

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

Suite Built Environment Design

Key words conservation; repair; maintenance; design
