

COSVR736 - SQA Unit Code F3H4 04

Establish dimensional control criteria



Overview

This standard is about

- 1 ensuring the project dimensional control information is in accordance with specified accuracy criteria
- 2 ensuring project dimensional controls are regularly and appropriately checked for operational and post-completion requirements

COSVR736 - SQA Unit Code F3H4 04

Establish dimensional control criteria

Performance criteria

- You must be able to:*
- P1 obtain relevant survey information, check that it is up to date and accurate, and resolve any problems
 - P2 correlate and interpret information on project work which is relevant to dimensional control
 - P3 ensure that variations are identified between the specified and the actual site dimensions, record them accurately and circulate them to decision-makers
 - P4 ensure that reference points are suitably placed, accurate, clearly identified and protected from movement or removal
 - P5 ensure a dimensional control monitoring system, which will make sure the specified accuracy criteria will be met, is established
 - P6 ensure that measuring and recording equipment is maintained to meet the specified accuracy criteria
 - P7 record any dimensional control information which may be of later use, and store it securely

COSVR736 - SQA Unit Code F3H4 04

Establish dimensional control criteria

Knowledge and understanding

You need to know and understand:

Performance Criteria 1 Obtain survey information

- K1 how to obtain relevant survey information
- K2 how to check that survey information is up to date and accurate
- K3 how to resolve **problems** with survey information
- K4 why you need to resolve **problems** with survey information

You need to know and understand:

Performance Criteria 2 Correlate and interpret information

- K5 how to correlate information on project work which is relevant to **dimensional control information**
- K6 how to interpret information on project work which is relevant to **dimensional control information**
- K7 why you need to correlate and interpret information on project work which is relevant to **dimensional control information**

You need to know and understand:

Performance Criteria 3 Identify variations

- K8 how to identify **variations** between the specified and the actual site dimensions
- K9 how to record **variations** between the specified and the actual site dimensions

You need to know and understand:

Performance Criteria 4 Set reference points

- K10 how to set accurate and clearly identifiable reference points from set **reference points** that are protected from movement and removal

You need to know and understand:

Performance Criteria 5 Develop a monitoring system

- K11 how to develop a **monitoring system**
- K12 why you need to develop a **monitoring system**

You need to know and understand:

Performance Criteria 6 Maintain measuring and recording equipment

- K13 how to maintain **measuring and recording equipment**
- K14 why specific **measuring and recording equipment** should be selected

You need to know and understand:

Performance Criteria 7 Record information

- K15 how to record and store **dimensional control information** which may be of later use

COSVR736 - SQA Unit Code F3H4 04

Establish dimensional control criteria

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 collect, collate and analyse survey information and resolve at least two of the following problems
 - 1.2 unclear information
 - 1.3 missing information
 - 1.4 inconsistencies between documents
 - 1.5 errors

Performance Criteria 2

- 2 records showing that the appropriate dimensional control information, including calculations, for the project has been correlated and interpreted

Performance Criteria 3

- 3 records showing that variations have been circulated to the decision-makers

Performance Criteria 4

- 4 records of reference points set, showing that they are suitably placed, accurate, clearly identified and protected

Performance Criteria 5

- 5 records of the monitoring system used

Performance Criteria 6

- 6 records showing checks on the use and maintenance of measuring and recording equipment

Performance Criteria 7

- 7 records showing the secure storage of the following information
 - 7.1 dimensions
 - 7.2 locations
 - 7.3 levels
 - 7.4 deviations

COSVR736 - SQA Unit Code F3H4 04

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Scope/range related to knowledge and understanding

Dimensional control information

- 1 lines
- 2 levels
- 3 angles
- 4 distances
- 5 curves
- 6 positions
- 7 setting out points

Measuring and recording equipment

- 8 mechanical
- 9 optical
- 10 electronic

Monitoring system

- 11 graphical
- 12 measured
- 13 instrumental

Problems

- 14 unclear information
- 15 missing information
- 16 inconsistencies between documents
- 17 errors

Reference points

- 18 ground stations
- 19 base lines
- 20 benchmarks
- 21 elevated target positions
- 22 global positioning systems (GPS)

Variations

- 23 boundaries
- 24 levels
- 25 locations

COSVR736 - SQA Unit Code F3H4 04

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