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## Overview

This standard is about

- 1 identifying where indeterminate situations exist
- 2 obtaining and testing information required for analysis
- 3 analysing differing perceptions of situations
- 4 applying aids and techniques to increase the reliability of judgements
- 5 making judgements
- 6 identifying limits of own knowledge

**Performance  
criteria**

- You must be able to:*
- P1 identify where indeterminate situations exist and estimate their affects
  - P2 obtain and assess information and identify and cover any significant gaps
  - P3 select, analyse and implement common tests relevant to the work to obtain information which cannot be obtained directly
  - P4 consult with specialists on the indeterminate situation
  - P5 identify and record the probable factors affecting the indeterminate situation
  - P6 analyse the different perceptions of indeterminate situations
  - P7 identify and justify ethical judgements which may resolve the indeterminate situation
  - P8 recommend and record the ethical judgements

## Knowledge and understanding

*You need to know and understand:*

### Performance Criteria 1

#### Identify where indeterminate situations exist

- K1 how to identify where indeterminate situations exist
- K2 how to estimate the effects of indeterminate situations
- K3 how to summarise the issues for the people who are affected

### Performance Criteria 2

#### Obtain and assess information

*You need to know and understand:*

- K4 how to identify any significant gaps in the available **information**
- K5 how to assess the accuracy and completeness of the **information**
- K6 how to obtain additional **information** to cover any gaps and to provide a valid starting point for the analysis of the situation

### Performance Criteria 3

#### Select, analyse and implement tests

*You need to know and understand:*

- K7 how to select and implement appropriate **tests** to collect **information** which cannot be obtained directly
- K8 how to analyse and interpret the test results using a valid and reliable method
- K9 how to draw justified conclusions from the results of the **tests**

### Performance Criteria 4

#### Consult with specialists

*You need to know and understand:*

- K10 how to consult with specialists from different technical disciplines and provide them with clear and accurate **information**

### Performance Criteria 5

#### Identify and record probable factors

*You need to know and understand:*

- K11 how to identify and describe the probable causes of indeterminate situations
- K12 how to record the probable causes of indeterminate situations

**Performance Criteria 6**

**Analyse the different perceptions of situations**

*You need to know and understand:*

K13 how to analyse and interpret the different **perceptions of situations**

K14 how to apply **aids and techniques** which increase the reliability of the decisions and judgements

**Performance Criteria 7**

**Identify and justify ethical judgements**

K15 how to identify and justify ethical **judgements** using clear **criteria** solutions and procedures which are likely to solve the problem with the least disruption and risk

**Performance Criteria 8**

**Recommend and record the ethical judgements**

K16 how to recommend solutions which offer the least disruption and risk

K17 how to record the solutions which offer the least disruption and risk

K18 how to identify the limits of own knowledge and experience and where to seek advice

## Additional Information

### Scope/range related to performance criteria

#### Performance Criteria 1

- 1 records showing identification of indeterminate situations, estimation of their realistic effects and a summary of the issues for the people who are affected

#### Performance Criteria 2

- 2 records showing assessment of the accuracy and completeness of the information available to identify any significant gaps
- 3 records showing additional information obtained to cover any gaps and to provide a valid starting point for the analysis of the situation

#### Performance Criteria 3

- 4 records showing selection and implementation of tests and analysis of the test result
- 5 use a valid and reliable method to draw conclusions which are justified by the data and the reliability of the analysis method

#### Performance Criteria 4

- 6 records of consultation with specialists from different technical disciplines
- 7 provide specialists with clear and accurate information

#### Performance Criteria 5

- 8 records of identification, clear and coherent description and recording of the probable factors affecting indeterminate situations for analysis

#### Performance Criteria 6

- 9 records of analysis of the different perceptions of indeterminate situations
- 10 interpret any situations into detailed issues that enable known opportunities and solutions to be identified and a way forward resolved
- 11 apply aids and techniques which increase the reliability of the decisions and judgements

#### Performance Criteria 7

- 12 records of identification and justification, using clear criteria and reasoned arguments, ethical judgements which are likely to resolve the situation with the least disruption and risk

#### Performance Criteria 8

- 13 records of recommendations of the ethical judgements within the limits of own knowledge and experience, suggesting controls, including the collection of valid and reliable data

### Scope/range related to knowledge and understanding

#### Aids and techniques

- 1 identify options
- 2 relationships between factors
- 3 weighted priorities
- 4 value utilities
- 5 expert systems

#### Criteria

- 6 predicted opportunity
- 7 added value
- 8 conformity with recognised good practice
- 9 based on up-to-date information
- 10 cost effectiveness
- 11 resources
- 12 safety
- 13 return to operational state
- 14 predicted risk
- 15 predicted disruption

#### Information

- 16 experience
- 17 practice
- 18 experts
- 19 manual and electronic information systems
- 20 colleagues and specialists

#### Judgements

- 21 justified opinion and conclusion
- 22 decision on action to be taken
- 23 decisions on validity
- 24 decisions on viability
- 25 identification of opportunities
- 26 identification of solutions
- 27 decisions on actions to be taken
- 28 best practice and knowledge of own craft

**Perceptions of situations**

- 29 information and conclusions from previous cases
- 30 similarities between previous cases and the current situation
- 31 the required outcome
- 32 known and anticipated limitations
- 33 known and anticipated opportunities

**Tests**

- 34 site investigation
- 35 physical surveys
- 36 materials and system tests
- 37 laboratory analysis
- 38 examination of compliance with statutory regulations
- 39 examination of compliance with health, safety and welfare, environmental and other ruling constraints

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## Resolve indeterminate situations

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