

# COGSC11

## Identify methods to control identified nuclear safety risks



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### Overview

This unit is about the activity in the identification of methods to control risks identified in a risk assessment.

This activity includes reviewing the results of a risk assessment, identifying safe operating limits and safety equipment and procedures, determining personnel levels, providing instructions to operators, specifying emergency response plans, identifying any improvements that might be needed.

This activity is likely to be undertaken by someone involved in preparing safety cases primarily by writing them or contributing to the detailed content.

This unit deals with the following:

1. Identify methods to control identified nuclear safety risks

During this work you must take account of the relevant worksite operational requirements, procedures and safe working practices AS THEY APPLY TO YOU.

Previous Version: Unit N311 National Occupational Standards in Radiation Protection - December 2005

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### Performance criteria

*You must be able to:*

- P1 review the results of the risk assessment for the nuclear safety risks
- P2 establish safe operating limits for the plant and equipment being used
- P3 identify and classify the structures, systems, and components and their safety functions relevant to the nuclear-related activity
- P4 identify the key safety equipment and procedures that should be used to control hazards
- P5 determine operating personnel levels, training, and other aspects relating to human factors in dealing with safety risks
- P6 provide clear instructions to operators to undertake activities and use plant and equipment within safety operating limits
- P7 identify which plant and equipment should be available for use, and the extent to which they can be substituted
- P8 specify emergency response plans and arrangements for responding to safety failures
- P9 identify any outstanding work, including improvements that need to be undertaken to minimise safety risks
- P10 comply with all relevant regulations and standards, and record all relevant actions and outcomes in the appropriate information systems

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### Knowledge and understanding

*You need to know and understand:*

- K1 communication and presentation methods
- K2 hazard and risk assessment methods
- K3 health and safety issues and requirements
- K4 human factors
- K5 international, national, and organisational risk criteria
- K6 nuclear industry: types of facilities, materials, and processes
- K7 organisational structures and procedures
- K8 radiation: types, sources, and hazards
- K9 risk assessment methods
- K10 safety case design and preparation
- K11 statutory requirements, regulations, and standards, including international, national, and local

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**Relevant occupations** Professional Occupations; Engineering Professionals; Engineering and manufacturing technologies; Engineering

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**Suite** Safety Case Preparation

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**Key words** identify, methods, control, identified, safety, risks, review, procedures