
Overview

This unit is about the activity of a risk assessment that takes into account all relevant information and assessments.

This activity includes reviewing the outcomes of all relevant assessments, defining the scope of the risk assessment, obtaining and collating relevant data, selecting appropriate risk assessment methods, and identifying risk criteria, calculating and assessing risks, and explaining any uncertainties or limitations.

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. Provide risk assessments for nuclear safety cases

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 N310 National Occupational Standards in Radiation Protection - December 2005

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Provide risk assessments for nuclear safety cases

Performance criteria

- You must be able to:*
- P1 review the outcomes of relevant consequence and frequency assessments
 - P2 define the scope of the risk assessment and how it contributes to the safety case
 - P3 select the appropriate risk assessment methods, and justify their use by identifying their strengths and weaknesses
 - P4 obtain and collate all relevant data for the risk assessment by using appropriate information sources and specialist assistance if necessary
 - P5 identify the appropriate risk criteria to be applied in the risk assessment
 - P6 calculate and quantify the risks arising from the nuclear-related activities
 - P7 compare the risks against the relevant criteria and determine whether they are acceptable
 - P8 assess the results of the risk assessment against ALARP principles
 - P9 identify methods for managing residual risks, including beyond design basis events, and recommend ways of reducing them
 - P10 explain clearly any uncertainties or limitations relating to the results of the risk assessment
 - P11 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 ALARP assessment
- K2 ALARP principles
- K3 communication and presentation methods
- K4 hazard and risk assessment methods
- K5 health and safety issues and requirements
- K6 human factors
- K7 international, national, and organisational risk criteria
- K8 nuclear industry: types of facilities, materials, and processes
- K9 organisational structures and procedures
- K10 radiation: types, sources, and hazards
- K11 risk assessment methods
- K12 safety case design and preparation
- K13 statutory requirements, regulations, and standards, including international, national, and local

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Suite Safety Case Preparation

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