

# COGTRM16

## Identify and quantify radiation hazards in the workplace



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### Overview

The main outcome of this activity is the identification and quantification of radiation hazards. The hazards could relate to the activities, equipment, or materials in the workplace.

This activity includes identifying potential radiation hazards; obtaining information on the hazards, including measuring them; quantifying the hazards, and identifying those that cannot be measured. This activity is likely to be undertaken by someone whose work role is focused on radiation protection.

This unit deals with the following:

- 1 Identify and quantify radiation hazards in the workplace

Radioactive material can potentially cause harm to people, property and the environment, so it is vitally important that you take all necessary safety measures.

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

### Previous Version:

Adapted from Unit N215 of Radiation Protection NOS – version February 2006

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### Performance criteria

- You must be able to:*
- P1 identify potential radiation hazards arising from the workplace
  - P2 identify appropriate measuring equipment to quantify the radiation hazards
  - P3 obtain all the appropriate records and information relating to the radiation hazards
  - P4 enlist the assistance of all relevant people and resources in the measurement of the radiation hazards
  - P5 quantify the radiation hazards according to the requirements of the organisation's radiation protection systems
  - P6 identify any radiation hazards that cannot be measured and take the appropriate action
  - P7 ensure that any problems with the measuring of radiation hazards are identified and resolved promptly
  - P8 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 health and safety issues and requirements
- K3 nuclear industry: types of facilities, materials, and processes
- K4 organisational structures and procedures
- K5 radiation monitoring equipment
- K6 radiation protection issues
- K7 radiation protection systems
- K8 radiation: types, sources, and hazards
- K9 sources of authoritative information on radiation protection
- K10 statutory requirements, regulations, and standards, including international, national and local

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**Status** Original

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**Originating organisation** Cogent

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**Relevant occupations** Engineering and manufacturing technologies; Manufacturing technologies; Process, Plant and Machine Operatives; Plant and Machine Operatives

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**Suite** Transportation of Radioactive Materials

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**Key words** identify, quantify, radiation, hazards, equipment, materials, activities, workplace, health, radiological, ionising, measure, monitoring, nuclear, safety