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## Overview

The main outcome of this activity is the investigation of radiation incidents, which could have an impact on the site or the surrounding area.

This activity includes determining the scope of the investigation and how it should be conducted; collecting information on the radiation incident; formulating a timeline of events; identifying the causes and consequences of the incident; assessing whether the contingency plans and radiation protection systems were effective; reporting on the incident and identifying the implications of it.

This activity is likely to be undertaken by someone whose work role is focused on radiation protection.

This unit deals with the following:

- 1 Investigate radiation incidents

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:**

Adapted from Unit N210 of Radiation Protection NOS – version February 2006.

# COGN210

## Investigate radiation incidents

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### Performance criteria

- You must be able to:*
- P1 confirm the scope and purpose of the investigation into the radiation incident
  - P2 determine the appropriate investigation methods that should be used
  - P3 obtain information on the organisation's response to the radiation incident
  - P4 review all relevant monitoring systems and documentation relating to the radiation incident
  - P5 formulate a timeline of events leading to the radiation incident
  - P6 propose the most likely causes of the radiation incident
  - P7 identify the impact of the radiation incident on the environment and the organisation
  - P8 assess whether contingency plans and radiation protection systems were effective in dealing with the radiation incident
  - P9 provide a clear report of the radiation incident for all relevant stakeholders
  - P10 identify any implications for radiation protection policies and systems arising from the radiation incident
  - P11 comply with all relevant regulations and standards, and record all relevant actions and outcomes in the appropriate information systems

# COGN210

## Investigate radiation incidents

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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 investigation methods and procedures
- K4 nuclear industry: types of facilities, materials, and processes
- K5 organisational structures and procedures
- K6 radiation incidents
- K7 radiation protection issues
- K8 radiation protection systems
- K9 radiation: types, sources, and hazards
- K10 risk assessment and hazard identification methods
- K11 sources of authoritative information on radiation protection
- K12 statutory requirements, regulations, and standards, including international, national, and local

# COGN210

## Investigate radiation incidents

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**Originating organisation** Cogent

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**Original URN** N210

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**Relevant occupations** Engineering Professionals; Engineering and manufacturing technology

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**Suite** Radiation Protection

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**Key words** Health, ionising, nuclear, radiological, safety, hazards