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## Overview

The main outcome of this activity is the development of a radiation protection system. The system will most likely be made up of existing equipment (single or multiple pieces) and procedures, but could be a completely original design. It is not expected that the actual equipment will be built by the person undertaking this activity.

This activity includes reviewing the performance of the existing system; planning how to develop the system; producing a design specification for any new aspects; ensuring the design achieves all requirements; developing maintenance and inspection criteria.

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

This unit deals with the following:

- 1 Develop radiation protection systems

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 N202 of Radiation Protection NOS – version February 2006.

### Performance criteria

*You must be able to:*

- P1 review all relevant information on the performance of the radiation protection system
- P2 determine the activities and resources that are needed to develop the radiation protection system
- P3 prioritise and schedule the development process to meet deadlines and achieve objectives
- P4 identify the equipment and procedures required for the radiation protection system
- P5 determine which aspects of the radiation protection system can be sourced from existing supplies or need to be designed
- P6 produce a design specification for any aspects of the radiation protection system that need to be designed
- P7 ensure that the design for the radiation protection system achieves the design specification
- P8 develop relevant maintenance and inspection criteria for the radiation protection system
- P9 ensure the development process of the radiation protection system complies with all relevant regulations and standards
- P10 comply with all relevant regulations and standards, and record all relevant actions and outcomes in the appropriate information systems

# COGN202

## Develop radiation protection 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 protection issues
- K6 radiation protection systems
- K7 radiation: types, sources, and hazards
- K8 sources of authoritative information on radiation protection
- K9 statutory requirements, regulations, and standards, including international, national, and local
- K10 system design methods

# COGN202

## Develop radiation protection systems

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**Developed by** Cogent

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**Originating organisation** Cogent

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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