
Overview

This unit is for you if you carry out the role of consignor in the transportation of radioactive material, as part of your job. The unit deals with the following:

- 1 checking that packages are suitable for the radioactive material in the consignment
- 2 checking that marking and labelling is correct
- 3 preparing documentation to facilitate the consignment
- 4 ensuring that correct documentation is in place for the consignment

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.

This unit is relevant to people who arrange the transportation of radioactive material, including that used in medical, research, industrial and nuclear applications, using all types of transport.

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Organise consignments of radioactive material

Performance criteria

- You must be able to:*
- P1 ensure that details of the radioactive material to be transported are obtained
 - P2 ensure that packages used for the carriage of the radioactive material are suitable, maintained and approved; and are classified and authorised in accordance with operational and regulatory requirements
 - P3 comply with requirements in relation to documentation and notification
 - P4 prepare the documentation correctly to meet critical dates and times for the transportation of the radioactive material
 - P5 ensure that all packages are marked and labelled in accordance with operational and regulatory requirements
 - P6 deal effectively with any problems with documentation, information and data
 - P7 provide all the necessary documentation, information and data to the carrier
 - P8 ensure necessary documentation is valid and in place.
 - P9 confirm that the carrier meets all requirements for carrying the radioactive material
 - P10 confirm the destination, mode of transport, any routing restrictions, the carrier and the consignee with relevant parties; and that the consignee will accept the consignment
 - P11 in the case of road transport, ensure relevant documentation is given to the driver
 - P12 keep accurate records of work activities in accordance with operational and regulatory requirements
 - P13 respond to contingencies within your area of responsibility in accordance with operational and regulatory requirements
 - P14 use communication channels with all participants effectively
 - P15 comply with operational and legal requirements at all times

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Knowledge and understanding

You need to know and understand:

- K1 the nature of radiation, its hazards and protection measures
- K2 the basic principles of safe transport of radioactive material
- K3 quality assurance principles and practices
- K4 the legal framework governing the transport of radioactive material, including mode-specific provisions and secondary hazards
- K5 the consignor's responsibilities under transport regulations
- K6 the classification of radioactive materials for transport
- K7 the types of package used for transportation of radioactive material; their design, applications and approval requirements
- K8 the importance of complying with requirements on the means of dispatch, routing and forwarding restrictions
- K9 the operational and regulatory requirements in relation to organising the transportation of radioactive material, including 'exclusive use'
- K10 the training and qualification requirements for all participants in the transportation of radioactive material
- K11 the significance of marking and labelling packages, including UN numbers and Proper Shipping Names
- K12 which organisations require documentation, information, data or notification
- K13 the types of problem that might occur with documentation, information and data, and how to deal with them
- K14 the contingency plans that apply to consignments and notification requirements of accidents and incidents
- K15 the security requirements that apply to consignments
- K16 safeguards and physical protection
- K17 the legal liabilities associated with consignments and the importance of insurance provisions

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Additional Information

Glossary

- 1 Consignment
Any package, packages, or load of radioactive material presented by a consignor for transport
- 2 Conveyance, for transport by:
 - 2.1 road or rail: any vehicle
 - 2.2 water: any vessel, or any hold, compartment or defined deck area of a vessel
 - 2.3 air: any aircraft
- 3 Documentation
Certificates, instructions, notifications, Dangerous Goods Transport Document
- 4 Labelling
Indication on a package of its contents, activity, transport index, criticality safety index as appropriate, and any other information, as required by the transport regulations
- 5 Marking
Indication, on a package, of information including the consignor or consignee, the UN Number and proper shipping name of the contents, the package type and other data, as required by the transport regulations
- 6 Operational and regulatory requirements
The organisation's procedures, local management instructions, operating procedures, guidelines, codes of practice, regulations, legislation
- 7 Package
The packaging with its radioactive contents as presented for transport
- 8 Participants in transportation of radioactive material
Consignor, consignee, carrier, packer, loader/unloader, driver, Dangerous Goods Safety Adviser, Radiation Protection Adviser
- 9 Principles of safe transport of radioactive material
To protect persons, property and the environment from the effects of radiation by means of:
 - 9.1 containment of the radioactive contents
 - 9.2 control of external radiation levels
 - 9.3 prevention of criticality

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9.4 prevention of damage caused by heat

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Suite Transportation of Radioactive Materials

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