

COGTRM10

Respond to incidents, hazardous conditions and emergencies in transportation of radioactive material environments



Overview

This unit is about your competence in responding to incidents, hazardous conditions and emergencies in transportation of radioactive material environments.

This unit deals with the following:

- 1 Report incidents, hazardous conditions and emergencies
- 2 Contribute to the correction of incidents, hazardous conditions and emergencies

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 1.11 of Chemical, Pharmaceutical and Petro-Chemicals Operations NOS – version May 2005

NB This unit is a tailored version of a unit produced by the PINTO, which was originally designated Unit 4.

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Performance criteria

You must be able to:

- P1 identify the nature, location and scope of incident
- P2 raise the appropriate alarm
- P3 report the incident to the appropriate people in accordance with operational reporting procedures
- P4 provide accurate and unambiguous information to the appropriate people
- P5 follow appropriate procedures after the situation has been assessed
- P6 inform appropriate people as actions are taken
- P7 take the correct action, in accordance with procedures, to deal with the incident
- P8 minimise the incident, hazard or emergency when safe to do so
- P9 act promptly and in association with others
- P10 correctly modify actions in response to changing conditions
- P11 complete all relevant documentation
- P12 work safely in accordance with operational and legal requirements at all times

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Knowledge and understanding

You need to know and understand:

- K1 identify the nature, location and scope of incident
- K2 raise the appropriate alarm
- K3 report the incident to the appropriate people in accordance with operational reporting procedures
- K4 provide accurate and unambiguous information to the appropriate people
- K5 follow appropriate procedures after the situation has been assessed
- K6 inform appropriate people as actions are taken
- K7 take the correct action, in accordance with procedures, to deal with the incident
- K8 minimise the incident, hazard or emergency when safe to do so
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Additional Information

Glossary

Operational and regulatory requirements

The organisation's procedures, local management instructions, operating procedures, guidelines, codes of practice, regulations, legislation

Incidents and Hazardous Conditions

These could include:

- 1 Flood
- 2 Toxic vapour and/or liquid release
- 3 Injured personnel
- 4 Accident
- 5 Equipment malfunction or breakdown
- 6 Breach of security

Emergencies

Emergencies could include:

- 1 Fire
- 2 Release /spillage of radioactive material
- 3 Explosion
- 4 Discovery of suspect package
- 5 Discovery of injured person
- 6 Accident involving person/equipment
- 7 Major services failure
- 8 Security threat

Raising the Alarm

This could be done by:

- 1 Mechanical/electrical means
- 2 Notifying someone else
- 3 Shouting

Action

Other actions to be taken could include:

- 1 Emergency shutdown of the plant
- 2 Evacuation of the plant
- 3 Notifying other people
- 4 Assessing risk
- 5 Emergency first aid
- 6 Shut down of the operation

Personal protective equipment

Equipment or workwear to protect the worker from radiation and other hazards

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Radioactive Material

May include solids, liquids and gases

Equipment

This may include any equipment where there is some interaction between items and/or people

Problems

These may relate to personnel and/or equipment and/or health/safety/environmental problems, etc

Documentation

Including that relating to emergencies, reports and any other relevant documentation

Health, safety and environment

To include relevant legislation and company policy

Health, safety and environmental problems

These may include contamination, dose rates and other chemical hazards.

Risk Assessment

To assess the likelihood of harming yourself and/or others by taking some form of action.

Communication

To include spoken, written and/or electronic

Participants in transportation of radioactive material

These include: consignor, consignee, carrier, packer, loader/unloader, driver, Dangerous Goods Safety Adviser, Radiation Protection Adviser etc

Principles of safe transport of radioactive material

To protect persons, property and the environment from the effects of radiation by means of:

- 1 containment of the radioactive contents
- 2 control of external radiation levels
- 3 prevention of criticality
- 4 prevention of damage caused by heat

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Suite Transportation of Radioactive Materials

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