

# COGTRM13

## Emergency procedure in transportation of radioactive material environments



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### Overview

This unit is about complying with company emergency procedures.

This involves:

- 1 raising the alarm once an emergency has been identified
- 2 informing others
- 3 minimising the effect of an emergency
- 4 maintaining your own and others' safety while working

This unit deals with the following:

- 1 raise the alarm on discovering an emergency
- 2 minimise the effect of an emergency

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:

Mapped to Unit 3.10 of Chemical, Pharmaceutical and Petro-Chemicals Operations NOS – version May 2005

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### Performance criteria

*You must be able to:*

- P1 raise the appropriate alarm on discovering the emergency
- P2 take action appropriate to the emergency
- P3 check the location and type of the emergency
- P4 provide accurate details on nature and location of the emergency to emergency services
- P5 if necessary, alert other people to the emergency
- P6 try to ensure that people do not panic
- P7 communicate with relevant people
- P8 ensure any action is taken promptly
- P9 assess the risk to yourself and others of trying to contain the emergency
- P10 if the risk is not increased, take appropriate action by following the correct procedure
- P11 minimise the effect on the environment by using appropriate techniques
- P12 comfort and reassure any casualties in the emergency
- P13 give a full and accurate report of the emergency
- P14 work safely at all times

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### Knowledge and understanding

*You need to know and understand:*

- K1 the methods of raising the alarm
- K2 why it is important to check on the location of the emergency
- K3 the type of radioactive material being transported and its hazards
- K4 how to provide clear and accurate details on the nature and location of the emergency
- K5 when and how to alert other personnel to the emergency
- K6 why it is important to communicate with relevant others
- K7 methods of communication to use
- K8 why it is important to try to follow safe working procedures
- K9 the importance of taking the appropriate action
- K10 the importance of taking immediate action
- K11 the consequences of not taking immediate action
- K12 ways to minimise panic
- K13 why it is important to contain the emergency
- K14 how to assess the risk of containing the emergency
- K15 methods of containing emergencies
- K16 why it is important to assess the risk to the environment
- K17 how to minimise environmental damage
- K18 how to comfort and reassure casualties
- K19 why it is important to give a full and accurate report of the incident
- K20 what your personal responsibilities are with regard to health, safety and environment

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### Additional Information

#### Glossary

##### **Emergency**

Emergencies could include:

- 1 Fire
- 2 Release/spillage of radioactive
- 3 material
- 4 Explosion
- 5 Discovery of suspect package
- 6 Discovery of injured person
- 7 Accident involving
- 8 person/equipment/vehicle
- 9 Major services failure
- 10 Breach in security including
- 11 theft, terrorism, hi-jack

##### **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 Evacuation
- 2 Notifying other people
- 3 Assessing risk
- 4 Emergency first aid
- 5 Shutdown of the operation

##### **Radioactive material**

May include solids, liquids and Gases

##### **Equipment**

This may include any equipment/vehicle/packages/packaging

##### **Documentation**

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

##### **Health, safety and environmental legislation**

To include relevant legislation and company policy

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### **Assess the hazard**

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

### **Communication/ Communicate**

May include spoken, written and/or electronic

### **Operational and regulatory requirements**

the organisation's procedures, third party organisations' procedures, Emergency Procedure Policy and Radiation Protection Programme, local management instructions, operating procedures, guidelines, codes of practice, regulations, legislation

### **Participants in transportation of radioactive material**

consignor, consignee, carrier, packer, loader/unloader, driver, Dangerous Goods Safety Adviser, Radiation Protection Adviser

### **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
- 2 contents
- 3 control of external radiation levels
- 4 prevention of criticality
- 5 prevention of damage caused by
- 6 heat

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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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