#### **COGER5** Controlling emergencies



#### **Overview**

The unit deals with the following:

- 1 Maintain a state of readiness
- 2 Assess situation
- 3 Take effective action
- 4 Establish and maintain communications
- 5 Delegate authority to act
- 6 Manage self and team performance
- 7 Deal with stress in self and others

During this work you must take account of the relevant operational requirements and safe working practices AS THEY APPLY TO YOU.

**Previous Version:** Unit ER5 – National Occupational Standards for Emergency Response – July 2001

# Performance criteria

You must be able to:

- P1 supply valid and reliable, oral and written information to relevant personnel
- P2 ensure that drills and exercises are consistent with priorities, objectives, procedures and statutory requirements
- P3 coach the Deputy OIM, The Emergency Management and Response Team and assessed their potential to respond to emergencies during drills and exercises
- P4 encourage personnel to seek clarification of their allocated roles and responsibilities and gain an awareness of ongoing activities
- P5 pre-plan actions to deal with potential emergencies
- P6 confirm the serviceability and sufficiency of equipment in accordance with procedures
- P7 obtain information from all appropriate sources evaluated it and confirmed it as quickly as possible
- P8 utilise the appropriate resources throughout the emergency
- P9 make valid interpretations of the emergency procedures and predetermined strategies and take valid decisions throughout the emergency
- P10 review the potential outcomes of the emergency and the possible response actions against the consequences and probabilities
- P11 develop a plan of action including that required to deal with contingency situations in the light of this evidence (the plan should be continually reviewed)
- P12 take the appropriate action as quickly as possible
- P13 coordinate and direct the emergency response teams in an effective manner
- P14 ensure that working practices are safe and conform to current health and safety legislation
- P15 inform the onshore team, the coastguard, the standby vessel, the fire team leaders and nearby installations/shipping and helicopters of the emergency and its progression at the appropriate times
- P16 effectively communicate the plan by using the PA telephone systems and a 2 way radio, with the relevant people in accordance with communication procedures
- P17 establish and maintain a common understanding of the situation throughout the emergency management team
- P18 provide reports of the situation as they develop to installation staff at suitable intervals
- P19 maintain an accurate record of key events and communication
- P20 establish when necessary, alternative communication methods including: 2 way radio and runners

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P21 make valid decisions on which activities should be delegated in the light of the circumstances of the moment. Additional activities should be delegated to those most suited to deal with them

- P22 assign all delegated activities to those most suited to deal with them in accordance with established procedures
- P23 make checks to ensure those delegated with the tasks understand them and report back accordingly
- P24 request assistance and action from others in a manner which promotes a positive response
- P25 take action and portray behaviour which contributes to the confidence and effectiveness of the team at all times
- P26 recognise the strengths and weaknesses within the emergency response team and taken the appropriate action
- P27 maintain an appropriate degree of detachment at all times
- P28 recognise stress induced reduction in performance of oneself and colleagues quickly
- P29 take the appropriate action by removing distressed personnel from critical task (especially those involving communication links) and reallocating these tasks whilst delegating personal tasks if workload becomes excessive and time management difficult
- P30 take action to reduce the stress in oneself and whenever possible in the emergency control team members; and other personnel in direct contact with the emergency control situation and all other persons onboard the installation

Knowledge and understanding	Core Essential Knowledge (OPITO OIM Standard)	
You need to know and	K1 Procedures	
understand:	K1.1 safety Case	
	K1.2 emergency procedures	
	K1.3 sources of help in an emergency (coastguard, sector club,	
	onshore emergency support vessels, helicopter, emergency	
	response vessels) and their facilities, methods of	
	communication and response times K1.4 incident escalation prediction models	
	K1.5 safety management system	
	K1.6 marine search and rescue procedures	
	K2 Hardware	
You need to know and understand:	K2.1 sources of information on the properties of onsite materials	
understand.	K2.2 layout of installation including location and functions of the	
	major systems and pieces of equipment	
	K2.3 all relevant sources of energy to prime movers K2.4 drain systems	
	K2.4 drain systems K2.5 location and operation of emergency systems (fire and gas	
	detection, firefighting, communications and life saving	
	appliances, escape systems and lifeboats)	
	K2.6 purpose of significant control systems	
	K2.7 causes and effects of significant alarms and trips	
	K2.8 effects of loss of any utility and its reinstatement	
	K3 Information	
You need to know and	K3.1 potential dangers resulting from activities in each area of the	
understand:	installation	
	K3.2 consequences of loss of containment	
	K3.3 effects of the environmental conditions on emergency response	
	K3.4 potential effects of the emergency on external operations eg	
	diving, supply vessel, standby vessel, helicopter	
	K3.5 potential effects of the emergency on combined operations	
	K3.6 implications of current health and safety legislation and its	
	guidance K3.7 principles for preventive and protective measures	
	K3.8 performance limitations of personal protective equipment	
	K3.9 models which identify root causes of accidents	
	K4 Human Factors	
You need to know and understand:	K4.1 stress induced reduction in performance	

	K4.2	contributory human factors to failures e.g. optimism in the face of adversity, false sense of security, over-cautious, under- cautious
	K4.3	
	K4.4	decision making processes and models
	Knowledge I	Endorsements (OPITO OIM Standard)
	The endorser	ments cannot be awarded in isolation. Competence is assessed in
	conjunction w	vith the Statements contained in the Core Unit.
You need to know and	K5 Produ	uction Operations (Fixed)
understand:	K5.1	principles of operation of all hydrocarbon systems and their safety critical interfaces and dependencies
	K5.2	process shutdown logic and its effects (operational intent and response to activation)
	K5.3	methods and consequences of isolation and depressurization
	K5.4	flare and vent systems
	K5.5	consequences of process upsets
	K5.6	purpose of the major components of wellhead and well completions
	K5.7	the effects which Wireline, Coiled Tubing and other maintenance activities and workover operations may have on well integrity
	K5.8	hazards associated with pipelines
	K5.9	simultaneous operations
	K6 Produ	uction Operations (Floating)
You need to know and	K6.1	principles of operation of all hydrocarbon systems and their
understand:		safety critical interfaces and dependencies
	K6.2	process shutdown logic and its effects (operational intent and response to activation)
	K6.3	methods and consequences of isolation and depressurization
	K6.4	flare and vent systems
	K6.5	consequences of process upsets
	K6.6	purpose of the major components of wellhead and well completions
	K6.7	the effects which Wireline, Coiled Tubing and other maintenance activities and workover operations may have on well integrity
	K6.8	hazards associated with pipelines
	K6.9	simultaneous operations
	K6.10	basic principles and effects of loss of stability and its control
	K6.11	basic principles and effects of loss of mooring (fixed or dynamic positioning)
	K6.12	marine damage control

	K6.13	installation design constraints affecting loading limitations
	K7 Drillir	ng Operations (Fixed)
You need to know and	K7.1	purpose of the drill string equipment, circulating system, rotary
understand:		equipment, diverter, BOP, riser and gas separator devices
	K7.2	causes and effects of mud loss and influx from the formation
		into the well bore and the implications
	K7.3	causes and effects of loss of pressure control systems
	K7.4	principles of hydrostatic well control and its application in
		drilling, running casing,workover operations and well testing
		including extended well testing
	K7.5	purpose of rig emergency shutdown systems
	K7.6	the effects which Wireline, Coiled Tubing and maintenance
		activities and workover operations may have on well integrity
	K7.7	flare and vent systems
	K7.8	basic principles of leg loading and soil bearings and effects on
		leg bearings in case of shallow blowout or severe storm (where
		appropriate to installation type)
	K7.9	simultaneous operations
	K8 Drillir	ng Operations (Floating)
You need to know and	K8.1	purpose of the drilling string equipment, hoisting equipment,
understand:		circulating system, rotary equipment, diverter, BOP, riser and
		gas separator devices
	K8.2	causes and effects of mud loss and influx from the formation
		into the well bore and the implications
	K8.3	causes and effects of loss of pressure control systems
	K8.4	principles of hydrostatic well control and its application in
		drilling, running casing, workover operations and well testing
		including extended well testing with tender support
	K8.5	purpose of rig emergency shutdown systems
	K8.6	the effects which Wireline, Coiled Tubing and maintenance
		activities and workover operations may have on well integrity
	K8.7	flare and vent systems
	K8.8	ongoing drilling programme
	K8.9	basic principles and effects of loss of stability
	K8.10	basic principles and effects of loss of mooring (fixed or dynamic
	K8.11	positioning)
	K8.12	basic principles and effects of loss of ballast control marine damage control
	K8.12	installation design constraints affecting local loading limitations
	10.13	
You need to know and		e/Floating Installations
understand:	K9.1	basic principles and effects of loss of stability
	K9.2	basic principles and effects of loss of sinkage/punch through

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(where appropriate to installation type)

- K9.3 basic principles and effects of loss of mooring (fixed or dynamic positioning)
- K9.4 basic principles and effects of loss of ballast control
- K9.5 marine damage control
- K9.6 installation design constraints affecting local loading limitations
- K9.7 flare and vent systems

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