



IAGC Guidelines for Marine Small Boat Training and Competency

Appendix 2 - Coxswain Competency and Enabling Objectives

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Guidelines for Marine Small Boat Training and Competency

Appendix 2 - Coxswain Competency and Enabling Objectives

Operator Skill Module 8 - Small Boats - Marine Operations		
Competency Objective	1.0	Coxswain
Amendment Number	0	Draft

Enabling Objective		
E.O	Objective	Reference
1.1	Hull and Machinery	Company Specific Policies and Procedures Manufacturers detailed instructions
1.2	Stability and Buoyancy	ISO 12217: Small Craft - Stability and Buoyancy Assessment and Categorisation
1.3	Mission Planning	Company Specific Policies and Procedures ILO/IMO - Maritime Labour Convention 2006 IAGC - Guidelines for Marine Small Boat Operations
1.4	General Operations	Company Specific Policies and Procedures IAGC - Guidelines for Marine Small Boat Operations
1.5	Seismic Operations	Company Specific Policies and Procedures IAGC - Guidelines for Marine Small Boat Operations
1.6	Communications	Company Specific Policies and Procedures Marine Radio VHF (Short Range Certificate) IMO - Global Maritime Distress and Safety System
1.7	OGP Training and Competency	Company Specific Policies and Procedures OGP - HSE Competence Assessment and Training Guidelines for the Geophysical Industry - OGP Report 6.78/292 OGP - Health Aspects of Work in Extreme Climates. A Guide for Oil and Gas Industry Managers and Supervisors - OGP Report Number 398
1.8	Seamanship	Company Specific Policies and Procedures MCA - Code of Safe Working Practices for Merchant Seamen Consolidated Edition, 2010
1.9	Survival at Sea	Company Specific Policies and Procedures

Enabling Objective		
E.O	Objective	Reference
		<p>IMO – Guidelines for the Assessment of Thermal Protection MSC/CIRC.1046 28 May 2002</p> <p>IMO – International Convention on Maritime Search and Rescue (SAR)</p> <p>IMO/ICAO – International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual</p> <p>IAGC – Guidelines for the Selection of an Integrated Survival System for Marine Geophysical Operations</p> <p>IAGC - Guidelines for Marine Small Boat Operations</p> <p>Manufacturers detailed instructions</p>
1.10	Planned Maintenance System	Company Specific Policies and Procedures
1.11	International Maritime Organisation	<p>International Convention for the Standards of Training, Certification and Watchkeeping for Seafarers 1978 (Amended 1995 and 1997)</p> <p>STCW 95 A-VI/2-1 Proficiency in Survival Craft and Rescue Boats other than Fast Rescue Boats</p> <p>STCW 95 A-VI/2-2 Proficiency in Fast Rescue Craft</p>

Operator Skill Module 8 - Small Boats - Marine Operations		
Competency Objective	1.0	Coxswain
Enabling Objective	1.1	Hull and Machinery
Amendment Number	0	Draft
Assessment Criteria	Theory and Practical	

Educational Specifications		
E.S	Specification	References
1.1.1	<p>Hull Integrity</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to identify the different compartments within the boat • Be able to identify the different types/levels of damage to a boats hull: <ul style="list-style-type: none"> ○ Superficial ○ Partial Penetration ○ Full Penetration • Be able to identify the level of repairs required for different types of hull damage • Be able to recognise the different effects that a flooded compartment will have on the trim and performance of a boat • Be able to carry out emergency repairs to superficial and partial penetration damage • Be able to select and use the appropriate repair media for emergency repairs • Understand the hazards associated with chemicals used to make repairs • Understand the hazards associated with the tools used to make emergency repairs 	
1.1.2	<p>Propulsion</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with propulsion systems: <ul style="list-style-type: none"> ○ Petroleum products (Oil, Fuel) ○ Rotating Parts ○ Hot Spots ○ Contact Dermatitis ○ Injection Injuries from fuel under pressure 	

	<ul style="list-style-type: none"> ○ Fumes and Carbon Monoxide (CO) • Be able to apply mitigation appropriate to the hazards and risks: <ul style="list-style-type: none"> ○ Lock Out Tag Out ○ Permit to Work ○ PPE and Barrier Creams • Be able to recognise the different components of the propulsion system: <ul style="list-style-type: none"> ○ Engine <ul style="list-style-type: none"> ▪ Starter Motor ▪ Generator/Alternator ▪ Exhaust/Turbo ▪ Sea Water Cooling System ▪ Oil Filters ▪ Anodes ▪ Fresh Water Cooling System ▪ Fuel Injector System ▪ Fuel Filters ▪ Air Filters ○ Transmission <ul style="list-style-type: none"> ▪ Torque Convertor/Clutch ▪ Oil Filters ▪ Control cables ○ WaterJet <ul style="list-style-type: none"> ▪ Control Levers ▪ Control Cables ▪ Wet bearing ▪ Dry bearing ▪ Shaft ▪ Anodes ○ Propeller and Rudder <ul style="list-style-type: none"> ▪ Bearings ▪ Fixed Pitch ▪ Variable Pitch ▪ Anodes • Be able to carry out fault finding on the different components of the propulsion system and be able to recognise different warning signs of potential failure of the system: <ul style="list-style-type: none"> ○ Exhaust Gas Colour changes ○ Emulsification of Water and Oil ○ Excess Vibration • Be able to carry out pre-launch inspections on the different components of the propulsion system • Be able to carry out simple repairs and servicing on the different components of the propulsion system as described by the manufacturer's instructions • Understand the limitations of running an engine or 	
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	propulsion system when in the stowed position	
1.1.3	<p>Fuel Systems</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with fuel systems: <ul style="list-style-type: none"> ○ Contact Dermatitis ○ Injection Injuries from fuel under pressure ○ Fuel/Ignition • Be able to apply mitigation appropriate to the hazards and risks • Be able to recognise the different components of the fuel system: <ul style="list-style-type: none"> ○ Tanks ○ Fuel transfer pipes ○ Filters ○ Injectors ○ Fuel System cut offs • Be able to carry out simple maintenance tasks on the fuel system: <ul style="list-style-type: none"> ○ Changing fuel Filters ○ Priming fuel pumps ○ Inspection of fuel tanks ○ Cleaning of fuel tanks and lines • Recognise common signs that indicate that there is a concern with the fuel: <ul style="list-style-type: none"> ○ Fungal Growth (Fuel Bug) ○ Waxing of Fuel ○ Octane/Cetane levels ○ Water/Moisture • Be aware of onboard fuel analysis systems 	
1.1.4	<p>Electrical Systems</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with electrical systems • Apply mitigation appropriate to the hazards and risks • Be able to recognise the different electrical systems onboard: <ul style="list-style-type: none"> ○ Ship to boat electrical charging ○ Boat internal supply ○ Alarm panels • Be able to recognise the different components of the electrical systems: <ul style="list-style-type: none"> ○ Battery ○ Mother Boards 	

	<ul style="list-style-type: none"> ○ Fuses ○ Earthing/Bonding ○ Sensors ○ External supply • Be able to identify common faults associated with electrical systems: <ul style="list-style-type: none"> ○ Earthing/Bonding ○ Short Circuiting 	
1.1.5	<p>Steering</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with power steering systems • Be able to apply mitigation appropriate to the hazards and risks • Be able to recognise the different components of the steering system: <ul style="list-style-type: none"> ○ Power steering units ○ Drive belts ○ Hoses and connectors ○ Control cables ○ Emergency steering system • Be able to perform daily checks and user maintenance on the system • Be able to give directions to the boat crew to make steering adjustments on the emergency steering system when underway 	
1.1.6	<p>Bilge</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with bilge systems • Be able to apply mitigation appropriate to the hazards and risks • Be able to recognise the different components of the bilge system: <ul style="list-style-type: none"> ○ Bilge pumps ○ Bilge pump electric system ○ Emergency bilge pumps ○ Water sensors • Be able to perform daily checks and user maintenance on the system • Be able to give directions to crew to operate the emergency bilge system whilst stationary and underway 	

1.1.7	<p>Fire Fighting Systems</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with compressed gas • Be able to apply mitigation appropriate to the hazards and risks • Be able to carry out user inspections of firefighting systems: <ul style="list-style-type: none"> ○ Compressed gas cylinders ○ Remote operating controls ○ Fire alarm sensors ○ Fire alarm control panels • Understand the limitations of different firefighting different systems • Know how to safely to operate the system • Be aware of the certification process for the system • Identify areas/vents where firefighting media may escape during activation of the system 	
1.1.8	<p>Offload Release Mechanisms</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with offload release systems • Be able to apply mitigation appropriate to the hazards and risks • Be able to recognise the components of system • Be able to perform daily checks and user maintenance on the system • Be aware of the certification process for the system • Be able to instruct crew on the safe operation of the mechanism 	
1.1.9	<p>Quick Release Mechanisms</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with quick release systems: <ul style="list-style-type: none"> ○ Ropes and lines under tension ○ Snap back zones ○ Unintentional release • Be able to apply mitigation appropriate to the hazards and risks • Be able to recognise the different types of the quick releases used onboard a boat: <ul style="list-style-type: none"> ○ Bow quick release 	

	<ul style="list-style-type: none"> ○ Towing quick releases • Be able to perform daily checks and user maintenance on the system • Be able to instruct crew on the safe operation of the mechanisms 	
1.1.10	<p>Self-Righting Mechanism</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with the self-righting system: <ul style="list-style-type: none"> ○ Compressed gas ○ Unintentional operation • Be able to apply mitigation appropriate to the hazards and risks • Be able to recognise the components of the system • Be able to perform daily checks and user maintenance on the system • Be aware of the certification process for the system • Be able to instruct crew on the safe operation of the system 	
1.1.11	<p>Towing Points</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with towing points: <ul style="list-style-type: none"> ○ Ropes and lines under tension ○ Snap back zones ○ Towing angles • Be able to apply mitigation appropriate to the hazards and risks • Be able to instruct crew on the safe use of the towing points 	
1.1.12	<p>Hydraulics</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with hydraulic system • Be able to apply mitigation appropriate to a hazards and risks • Be able to recognise the different components of the hydraulic system • Be able to perform daily checks and user maintenance on the system • Be aware of onboard hydraulic analysis systems 	

1.1.13	<p>Winches/Capstans/Storage Reels</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with winches, capstans and storage reels <ul style="list-style-type: none"> ○ Rotating parts ○ Safe working loads ○ Pinch points • Be able to apply mitigation appropriate to a hazards and risks • Be able to recognise the different components of the hydraulic system • Be able to perform daily checks and user maintenance on the system • Be able to instruct crew on the safe operation of the systems 	
1.1.14	<p>Cable Lifting Devices</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with cable lifting devices: <ul style="list-style-type: none"> ○ Moving parts ○ Safe working loads ○ Pinch points • Be able to apply mitigation appropriate to the hazards and risks • Be able to recognise the different components of lifting device: <ul style="list-style-type: none"> ○ Hydraulic hoses ○ Control levers ○ Pressure relief valves ○ Hydraulic cylinders • Be able to perform daily checks and user maintenance on the system • Be able to instruct crew on the safe operation of the device: <ul style="list-style-type: none"> ○ Safe Working Load ○ Quick release systems ○ Pressure relief valves • Be able to anticipate changes in the boat trim when a load is applied to the device 	
1.1.15	<p>Seismic Specific Towing Clamps</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in working with towing clamps: 	

	<ul style="list-style-type: none"> ○ Pinch points ○ Manual handling ○ Working over the side ○ Ropes and lines under tension • Be able to apply mitigation appropriate to the hazards and risks • Be able to anticipate changes in the boat trim when a loads are applied 	
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Operator Skill Module 8 - Small Boats - Marine Operations		
Competency Objective	1.0	Coxswain
Enabling Objective	1.2	Stability and Buoyancy
Amendment Number	0	Draft
Assessment Criteria	Theory and Practical	

Educational Specifications		
E.S	Specification	References
1.2.1	Stability and Buoyancy	ES 1.2.1

	<p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand how the boats Centre of Gravity (CG) and Centre of Buoyancy (CB) interact: <ul style="list-style-type: none"> ○ Vertical Centre of Gravity (VCG) ○ Longitude Centre of Gravity (LCG) ○ Transverse Centre of Gravity (TCG) • Understand how the principle of the Righting Angle (R) acts in relation to changes in the alignment of a boats' CG and CB • Understand how a boats buoyancy and stability interact • Understand the different terminology for changes to a boats trim and what may cause those changes: <ul style="list-style-type: none"> ○ Forward Pitch ○ Aft Pitch ○ Heel ○ Heave ○ Roll 	
1.2.2	<p>Downflood Height</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the concept of downflooding height • Be able to identify the downflooding height restrictions of a boat • Be able to identify the types of drainage available to the different compartments of a boat • Be aware of the systems on the boat designed to prevent downflooding • Understand how the flooding of a compartment will affect the trim of a boat 	
1.2.3	<p>Free Board</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the concept of freeboard • Identify the areas of a boat that determine the freeboard height 	

1.2.4	<p>Free Surface Effect (FSE)</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand how the movement of liquids in a compartment or on a deck will effect a boats stability • Be able to identify areas or compartments of a boat where FSE may take place 	
1.2.5	<p>Flooding</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the potential areas of the boat where flooding my occur • Be able to identify the areas or compartments of the boat where this condition may originate 	
1.2.6	<p>Collision and Grounding</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the principles of boat construction and hull strength • Have a general knowledge of emergency hull repairs • Have an understanding of the boats propulsion system and immediate precautions or considerations which should be addressed in a grounding. 	

Operator Skill Module 8 - Small Boats - Marine Operations		
Competency Objective	1.0	Coxswain
Enabling Objective	1.3	Mission Planning
Amendment Number	0	Draft
Assessment Criteria	Theory and Practical	

Educational Specifications		
E.S	Specification	References
1.3.1	Leadership and Management	OGP 210 - Guidelines for

	<p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to demonstrate leadership and management • Be able to communicate the organisations goals and objectives • Be able to set expectations based on the process, hazards and risks • Be able to educate others • Be able to encourage innovation and learning • Be able to motivate individual's and team's • Be able to improve an individual's and team's performance • Be able to utilize the talents of others 	<p>the development and application of health, safety and environmental management systems. Report Number 6.36/210</p>
1.3.2	<p>Holding a Tool Box Talk</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to hold a tool box meeting in a clear and concise manner. • Be able to convene in simple terms the scope of the tasks to be perform and the hazards and risks involved • Be able to explain the mitigation and recovery methods required for the operation • Be able to convey the effects of expected sea conditions on the boat during specific tasks: <ul style="list-style-type: none"> ○ Following seas ○ Beam on seas ○ Quarterly seas ○ Into seas • Be able to discuss environmental constraints that may impact on the task and the mitigation for each: <ul style="list-style-type: none"> ○ Light level ○ Ambient Temperature <ul style="list-style-type: none"> ▪ Hot ▪ Cold ▪ Wind Chill ○ Sea Temperature • Be able to discuss the operational constraints that may impact on the task and the mitigation for each: <ul style="list-style-type: none"> ○ Territorial disputes ○ Vessel operations ○ Simultaneous operations ○ Potential for piracy 	<p>IMO/UNHCR - Rescue at Sea: A Guide to Principles and Practice as applied to Migrants and Refugees. 2006</p>

	<ul style="list-style-type: none"> ○ Crew competency levels ○ Support fleet limitations, for example: <ul style="list-style-type: none"> ▪ Fendering ▪ Embarkation areas ▪ Discharge pipes ▪ Steering ▪ Speed ○ Interacting with vessels in distress 	
1.3.3	<p>Planning Effective Missions</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to plan an effective mission based on the: <ul style="list-style-type: none"> ○ Time available ○ Resources Available ○ Number and type of tasks ○ Fatigue management ○ Recovery Methods: <ul style="list-style-type: none"> ▪ Emergency/Recovery planning ▪ Immediate action plans ○ Operational and environmental constraints • Understand the potential hazards and risks associated with operational constraints: <ul style="list-style-type: none"> ○ Territorial disputes ○ Vessel operations ○ Simultaneous operations ○ Potential for piracy ○ Crew competency levels ○ Support fleet limitations ○ Interacting with vessels in distress <ul style="list-style-type: none"> ▪ Refugee ○ Sinking • Understand the potential hazards and risks associated with environmental constraints: <ul style="list-style-type: none"> ○ Limitations of a boat to sea-condition: <ul style="list-style-type: none"> ▪ Wave formation ▪ Wave Definitions ▪ Sea Conditions ▪ Wind conditions ▪ Ambient temperature ▪ Sea Temperatures ▪ Ice 	<p>OGP 210 - Guidelines for the Development and Application of Health, Safety and Environmental Management Systems. Report Number 6.36/210</p>

	<ul style="list-style-type: none"> ▪ Floating debris ○ Restrictions to boat operations caused by: <ul style="list-style-type: none"> ▪ Light levels ▪ Visibility ▪ Boat speed • Understand what systems the organisation and/or vessel operates for: <ul style="list-style-type: none"> ○ Man Overboard ○ Capsize of a small boat ○ Small Boat Propulsion failure ○ Small Boat Emergency Towing • Be able to apply the emergency procedures appropriate to small boat operations 	
1.3.4	<p>Charts, Buoyage Systems and Beacons</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Identify the main features on a Nautical chart: <ul style="list-style-type: none"> ○ Water depth ○ Type of bottom ○ Type of shoreline ○ Current direction ○ Coastal altitude ○ Aids to navigation • Identify the different buoyage used, their colour, shape and usage • Identify the different beacons used, their colour, shape and usage 	International Association of Lighthouse Authorities (IALA) - Maritime Buoyage System

Operator Skill Module 8 - Small Boats - Marine Operations		
Competency Objective	1.0	Coxswain
Enabling Objective	1.4	General Operations
Amendment Number	0	Draft
Assessment Criteria	Theory and Practical	

Educational Specifications		
E.S	Specification	References
1.4.1	<p>Managerial Controls</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to demonstrate the application of the organisations Managerial Controls: <ul style="list-style-type: none"> ○ Procedures ○ Risk Assessments 	

	<ul style="list-style-type: none"> ○ Competency ○ Planned Maintenance System • Be able to contribute to the production of small boat related risk assessments • Be able to contribute to the production of small boat related procedures • Be able to effectively communicate and report any deficiencies related to the small boat. 	
1.4.2	<p>Launch</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to carry out pre-launch checks on the boat to ensure that it is operational • Understand the hazards and risks associated with the launch of a small boat from a ship that is, for example: <ul style="list-style-type: none"> ○ Underway <ul style="list-style-type: none"> ▪ With towed seismic equipment ▪ Without towed seismic equipment ○ Stationary • Understand the hazards and risks associated with the launch of a small boat under various sea conditions: <ul style="list-style-type: none"> ○ Head Sea ○ Beam sea ○ Following sea ○ Quarterly sea ○ Windward Side ○ Lee Side • Be able to apply mitigation appropriate to the hazards and risks: <ul style="list-style-type: none"> ○ Managerial Controls <ul style="list-style-type: none"> ▪ Procedures ▪ Risk Assessments ○ Competency ○ Planned Maintenance System ○ Providing a Lee • Be aware of the emergency procedures to be carried out if a failure of a system occurs during launch: <ul style="list-style-type: none"> ○ Launching system ○ Release mechanism ○ Painter line 	

	<ul style="list-style-type: none"> ○ Propulsion ○ Steering ○ Activation of one or more boats' alarms <ul style="list-style-type: none"> ▪ Fire ▪ Engine - Oil Pressure ▪ Engine – Temperature • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.4.3	<p>Recovery</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to carry out pre-recovery checks to the boat to ensure that it is fully operational • Understand the hazards and risks associated with the recovery of a small boat to a ship that is: <ul style="list-style-type: none"> ○ Underway <ul style="list-style-type: none"> ▪ With towed seismic equipment ▪ Without towed seismic equipment ○ Stationary • Understand the hazards and risks associated with the recovery of a small boat under various sea conditions: <ul style="list-style-type: none"> ○ Heading into Sea ○ Beam sea ○ Following sea ○ Quarterly sea ○ Windward Side ○ Lee Side • Be able to apply mitigation appropriate to the hazards and risks: <ul style="list-style-type: none"> ○ Managerial Controls <ul style="list-style-type: none"> ▪ Procedures ▪ Risk Assessments ○ Competency ○ Planned Maintenance System ○ Providing a Lee • Be aware of the emergency procedures to be carried out if a failure of a system occurs during recovery: <ul style="list-style-type: none"> ○ Recovery system ○ Release mechanism 	

	<ul style="list-style-type: none"> ○ Painter line ○ Propulsion ○ Steering ○ Activation of one or more boats' alarms <ul style="list-style-type: none"> ▪ Fire ▪ Engine - Oil Pressure ▪ Engine – Temperature • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.4.4	<p>Embarkation/Rescue Zones</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to identify the particular hazards and risks involved with the coming alongside a vessel embarkation/rescue zone: <ul style="list-style-type: none"> ○ Snag Hazards ○ Location of fenders ○ Fluid discharge points ○ Strake • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects that may occur to the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach and departure to a vessel ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to maintain a position whilst alongside ○ Be able to react correctly to course and speed changes of the vessel • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.4.5	<p>Manoeuvring and Pacing</p> <p>The delegate shall:</p>	

	<ul style="list-style-type: none"> • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ An ability to maintain course and speed appropriate to the environmental conditions ○ Situational awareness of the task and surroundings ○ Be able to react correctly to course and speed changes/corrections • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.4.6	<p>Stretcher Patient Transfer</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task: <ul style="list-style-type: none"> ○ Manual handling ○ Slips trips and falls ○ Boat and vessel dynamic movements ○ Embarkation zones • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects that may occur to the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach and departure to a vessel ○ An ability to maintain course and speed appropriate to the environmental conditions 	

	<ul style="list-style-type: none"> ○ An ability to manoeuvre the boat whilst alongside a vessel ○ An ability to maintain a position whilst alongside a vessel ○ Situational awareness of the task and surrounding ○ Be able to react correctly to course and speed changes • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.4.7	<p>Cargo Transfer</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects that may occur to the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach and departure to a vessel ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst carrying cargo ○ An ability to maintain a position whilst alongside a vessel ○ Be able to react correctly to course and speed changes • Understand the principle of maintaining the boats trim • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	

<p>1.4.8</p>	<p>Personnel Transfer (Small Boat to Small Boat)</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach and departure to a vessel ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst carrying passengers ○ An ability to maintain a position whilst alongside another boat • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
<p>1.4.9</p>	<p>Personnel Transfer (Ship to Ship)</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach and departure to a vessel ○ An ability to maintain course and speed appropriate to the environmental 	

	<ul style="list-style-type: none"> ○ conditions ○ An ability to manoeuvre the boat whilst carrying passengers ○ An ability to maintain a position whilst alongside a vessel • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.4.10	<p>Small Boat Emergency Towing</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach and departure to a vessel ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst towing another boat <ul style="list-style-type: none"> ▪ Inline ▪ Abreast ○ An ability to maintain a position in proximity to another boat ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.4.11	<p>Working in Davit Areas</p> <p>The delegate shall:</p>	

	<ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks: <ul style="list-style-type: none"> ○ Fall Protection ○ Fall Arrest ○ Dropped Objects ○ Rescue at Height • Be able to assess the environmental conditions and the potential effects they may have on the planned work in the davit area • Must be able to demonstrate situational awareness of when working in a davit area 	
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Operator Skill Module 8 - Small Boats - Marine Operations		
Competency Objective	1.0	Coxswain
Enabling Objective	1.5	Seismic Operations
Amendment Number	0	Draft
Assessment Criteria	Theory and Practical	

Educational Specifications		
E.S	Specification	References
1.5.1	<p>Cable Ballasting</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to the hazards and risks • Be able to assess the environmental conditions and their potential effects to the operation • Must be able to demonstrate the following: 	

	<ul style="list-style-type: none"> ○ A safe approach to the streamer ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst the streamer is supported by the boats lifting mechanism ○ An ability to maintain a position on the streamer ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the streamer • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.2	<p>Cable Cleaning</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and their potential effects to the operation • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the streamer ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst the streamer is supported by the boats lifting mechanism ○ An ability to maintain a position on the streamer ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew 	

	<ul style="list-style-type: none"> ○ A safe departure from the streamer • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.3	<p>Cable Mounted Device Maintenance and Change</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and their potential effects to the operation • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the streamer ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst the streamer is supported by the boats lifting mechanism ○ An ability to maintain a position on the streamer ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the streamer • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.4	<p>Navigation Buoy Maintenance</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks 	

	<ul style="list-style-type: none"> • Be able to assess the environmental conditions and the potential effects that may occur to the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the streamer ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst the streamer is supported by the boats lifting mechanism ○ An ability to maintain a position on the streamer ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the streamer • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.5	<p>Navigation Buoy Change</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects that may occur to the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the streamer ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst the streamer is supported by the boats lifting mechanism ○ An ability to maintain a position on the 	

	<p>streamer</p> <ul style="list-style-type: none"> ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the streamer <ul style="list-style-type: none"> • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.6	<p>Head Buoy Maintenance</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the buoy ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst the streamer is supported by the boats lifting mechanism ○ An ability to maintain a position on the streamer ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the buoy • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.7	<p>Head Buoy Change</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure 	

	<p>for the task</p> <ul style="list-style-type: none"> • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the buoy ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst the streamer is supported by the boats lifting mechanism ○ An ability to maintain a position on the streamer ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the buoy • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.8	<p>Inline Device Change</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the streamer ○ An ability to maintain course and speed appropriate to the environmental 	

	<p>conditions</p> <ul style="list-style-type: none"> ○ An ability to manoeuvre the boat whilst the streamer is supported by the boats lifting mechanism ○ An ability to maintain a position on the streamer ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the streamer • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.9	<p>Section Change</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the streamer ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst the streamer is supported by the boats lifting mechanism ○ An ability to maintain a position on the streamer ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the streamer • Must be able to demonstrate situational 	

	awareness of the operation and the surrounding environment	
1.5.10	<p>Deflector Inspection</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the deflector ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre without entering hazardous areas of the deflector ○ An ability to maintain a position relative to the deflector ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the deflector • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.11	<p>Front End Inspection</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions 	

	<p>and the potential effects they may have on the boat</p> <ul style="list-style-type: none"> • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the towed equipment ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to maintain a position in relation to the front end ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the towed equipment • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.12	<p>Source Inspection</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the source ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst maintaining a safe position in relation to the source ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew 	

	<ul style="list-style-type: none"> ○ A safe departure from the source • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.13	<p>Tail End Section Change</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the streamer ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst the streamer is supported by the boats lifting mechanism ○ An ability to maintain a position on the streamer ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the streamer • Must be able to demonstrate situational awareness of the operation and the surroundings 	
1.5.14	<p>Tail Swivel Change</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a 	

	<p>hazards and risks</p> <ul style="list-style-type: none"> • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the streamer ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst the streamer is supported by the boats lifting mechanism ○ An ability to maintain a position on the streamer ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the streamer • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.15	<p>Recovery and Removal of Floating Debris from Towed Equipment</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the towed equipment ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to manoeuvre the boat whilst the streamer is supported by the boats 	

	<p>lifting mechanism</p> <ul style="list-style-type: none"> ○ An ability to maintain a position on the streamer ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the towed equipment <ul style="list-style-type: none"> • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.16	<p>Recovery and Removal of Floating Debris from Sea</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ A safe approach to the debris ○ An ability to maintain course and speed appropriate to the environmental conditions ○ An ability to maintain a safe position in relation to the debris ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the debris • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.17	<p>Deployment and Recovery of Hydrographic Instruments (TS Dip, Sippican, etc)</p> <p>The delegate shall:</p>	

	<ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate the following: <ul style="list-style-type: none"> ○ An ability to maintain course and speed appropriate to the environmental conditions ○ Be able to react correctly to course and speed changes/corrections requested by small boat crew ○ A safe departure from the debris • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	
1.5.18	<p>Scouting</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Have a thorough knowledge of the procedure for the task • Be able to identify the particular hazards and risks involved with the task, this may include: <ul style="list-style-type: none"> ○ Fixed Platforms ○ Anchor and Anchor Chains ○ Fish Traps ○ Tides ○ Currents • Be able to apply mitigation appropriate to a hazards and risks • Be able to assess the environmental conditions and the potential effects they may have on the boat • Must be able to demonstrate situational awareness of the operation and the surrounding environment 	

Operator Skill Module 8 - Small Boats - Marine Operations		
Competency Objective	1.0	Coxswain
Enabling Objective	1.6	Communications
Amendment Number	0	Draft
Assessment Criteria	Theory and Practical	

Educational Specifications		
E.S	Specification	References
1.6.1	<p>Use of VHF Radios</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to set up a radio • Be able to select specified radio channels • Be able to effectively talk over a radio using internationally recognised terminology including the phonetic alphabet • Be able to send a PAN - PAN or MAYDAY call • Understand the organisations 'Loss Communications Procedure' • Be able to send a Situation Report (SITREP) 	The Restricted (VHF) Operators course may be used to cover this Educational Specification
1.6.2	<p>Hand Signals</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to communicate effectively with the vessels launch and recovery crew using the organisations defined hand signals 	

1.6.3	Verbal Commands The delegate shall: <ul style="list-style-type: none">• Be able to communicate in a clear and concise manner in the vessels working language	
1.6.4	Boat Specific - Radar, Global Positioning Systems (GPS), and Echo Sounders The delegate shall: <ul style="list-style-type: none">• Understand the various electronic navigational aids onboard the boat• Be familiar with operating instructions and simple fault finding / troubleshooting processes for each particular unit	

Operator Skill Module 8 - Small Boats - Marine Operations		
Competency Objective	1.0	Coxswain
Enabling Objective	1.7	OGP Training and Competency
Amendment Number	0	Draft
Assessment Criteria	Theory and Practical	

Educational Specifications		
E.S	Specification	References
1.7.1	<p>Awareness Module 7 - Hearing Conservation</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to demonstrate an understanding of the acceptable noise level limits • Understand and be able to demonstrate the causes of noise associated with small boat operations and how to mitigate them: <ul style="list-style-type: none"> ○ Causes <ul style="list-style-type: none"> ▪ Engines ▪ Transmissions ▪ Propulsion ▪ Radio Communications ▪ Mechanical Maintenance ▪ Winches and Hydraulics ▪ Excessive speed ○ Mitigation <ul style="list-style-type: none"> ▪ Insulation ▪ Servicing ▪ Personnel Protective Equipment 	<p>OGP - HSE Competence Assessment and Training Guidelines for the Geophysical Industry - OGP Report 6.78/292</p> <p>IMO - Code on Noise Levels On-Board Ships</p>

	<ul style="list-style-type: none"> ▪ Speed 	
1.7.2	<p>Awareness Module 13 - Emergency Procedures</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand and be able to demonstrate the companies/vessel's contingency plans for the recovery of a person from the Sea • Understand and be able to demonstrate the systems operated onboard the vessel for raising an alarm in situations involving a man overboard from the vessel or a capsizing of a small boat • Understand and be able to demonstrate the systems operated onboard the vessel for raising an alarm in situations involving a man overboard from another vessel within a project fleet 	<p>OGP - HSE Competence Assessment and Training Guidelines for the Geophysical Industry - OGP Report 6.78/292</p> <p>Company Specific Policies and Procedures</p> <p>Msc.1/Circ.1447 Guidelines For The Development Of Plans And Procedures For Recovery Of Persons From The Water</p> <p>MSC.1/Circ.1182 Guide to Recovery Techniques</p> <p>MSC.1/Circ.1185/Rev.1 Guide for Cold Water Survival</p>
1.7.3	<p>Awareness Module 14 - Incident Prevention</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand and be able to demonstrate the companies/vessel's system for incident prevention 	<p>OGP - HSE Competence Assessment and Training Guidelines for the Geophysical Industry - OGP Report 6.78/292</p>
1.7.4	<p>Awareness Module 30 - Working at Height</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand and be able to demonstrate the companies/vessel's controls for working at heights • Identify the different definitions of Working at Height as defined by the company, for example: <ul style="list-style-type: none"> ○ Over the side ○ Aloft ○ At depth ○ At height • Understand and be able to demonstrate the hazards associated with working at height • Understand and be able to demonstrate the safe use of working at height equipment 	<p>OGP - HSE Competence Assessment and Training Guidelines for the Geophysical Industry - OGP Report 6.78/292</p>
1.7.5	<p>Field Management Module 2 - Incident Reporting and Classification</p>	<p>OGP - HSE Competence Assessment and Training Guidelines for the Geophysical</p>

	<p>The delegate shall:</p> <ul style="list-style-type: none"> Understand and be able to demonstrate the companies/vessel's system for the reporting of incidents 	Industry - OGP Report 6.78/292
1.7.6	<p>Field Management Module 6 - Job Safety Analysis</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> Understand the definitions of a hazard and a risk Demonstrate an ability to identify the hazards and risks involved in small boat operations Apply mitigation appropriate to particular hazards and risks Demonstrate an ability to compile a Risk Assessment appropriate to the company's management system and standards 	OGP - HSE Competence Assessment and Training Guidelines for the Geophysical Industry - OGP Report 6.78/292
1.7.7	<p>Field Management Module 8 - Personal Protective Equipment</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> Understand and be able to demonstrate the companies/vessel's policies and procedures for the wearing of PPE Be able to demonstrate the correct selection of PPE appropriate to the hazards and risk involved in a task 	OGP - HSE Competence Assessment and Training Guidelines for the Geophysical Industry - OGP Report 6.78/292
1.7.8	<p>Operator Skill Module 4 - Basic First Aid - Level 1</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> Understand the principles of medical first aid <ul style="list-style-type: none"> Preserve life, (including their own) Protect the casualty from further harm Prevent the injury or illness from getting worse Promote recovery Be able to demonstrate how to assess hazards and risks to a casualty and the first aider Be able to manage a casualties airway Be able to manage the C Spine of a casualty Be able to manage and assist in CPR Be able to manage and assist if required a casualty's breathing Be able to manage a casualty who is bleeding Be able to manage a casualty who may have a fracture 	OGP - HSE Competence Assessment and Training Guidelines for the Geophysical Industry - OGP Report 6.78/292

	<ul style="list-style-type: none"> • Be able to place a casualty into the Recovery Position (3/4 Prone) 	
1.7.9	<p>Climatic Injuries (Cold)</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the different types of injuries and illnesses associated with cold climates: <ul style="list-style-type: none"> ○ Chilblains ○ Frost Bite/Nip ○ Hypothermia <ul style="list-style-type: none"> ▪ Fast Acting (Immersion) ▪ Slow Acting ○ Immersion Foot/Hand ○ Dehydration ○ Photokeratitis (Snow Blindness) ○ Sunburn ○ Fatigue • Recognise the signs and symptoms of a cold climate related injury or illness • Understand the principle of wind-chill and how it may affect an operation • Understand and apply the measures used to prevent cold climate related injuries and illnesses • Be able to provide medical first aid for cold climate related injuries and illness 	IPIECA and OGP - Health Aspects of Work in Extreme Climates
1.7.10	<p>Climatic Injuries (Hot)</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the different types of injuries and illnesses associated with hot climates: <ul style="list-style-type: none"> ○ Heat Cramp ○ Heat Exhaustion ○ Heat Stroke ○ Dehydration ○ Fatigue ○ Sun Burn • Recognise the signs and symptoms of a hot climate related injury or illness • Understand and apply the measures used to prevent hot climate related injuries and illnesses • Understand the principle of Heat Stress and how it may impact an operation • Be able to provide medical first aid for hot climate related injuries and illness 	IPIECA and OGP - Health Aspects of Work in Extreme Climates

Operator Skill Module 8 - Small Boats - Marine Operations		
Competency Objective	1.0	Coxswain
Enabling Objective	1.8	Survival at Sea
Amendment Number	0	Draft
Assessment Criteria	Theory and Practical	

Educational Specifications		
E.S	Specification	References
1.8.1	<p>Capsize</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in a capsize: <ul style="list-style-type: none"> ○ Stationary capsize ○ Towed capsize • Be able to apply the appropriate recovery methods for the type of boat capsize: <ul style="list-style-type: none"> ○ Self-righting Mechanism ○ Release of Life-raft 	<p>This Educational Specification may be covered by; E.S 1.11.1 STCW 95 A-VI/2-1 Proficiency in Survival Craft and Rescue Boats other than Fast Rescue Boats or STCW 95 A-VI/2-2 Proficiency in Fast Rescue Craft</p>
1.8.2	<p>Use of Personnel Floatation Devices (PFD)</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand how to don a PFD correctly • Know the operate the PFD in manual and automatic modes • Be able to carry out a user inspect on an inflatable PFD 	<p>Manufacturers detailed instructions</p>

	<ul style="list-style-type: none"> ○ Harness integrity ○ Bladder integrity ○ Ancillary items <ul style="list-style-type: none"> ▪ Oral Inflation Tube ▪ Whistle ▪ Light ▪ Reflective Tape ▪ Buckles ▪ Thigh Straps • Know the common faults/failures that may occur to the components of a PFD 	
1.8.3	<p>Use of Maritime Survivor Locator Device (MSLD)</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand how to operate the organisations MSLD in manual and automatic mode • Understand how the MSLD interacts with alerting and direction finding equipment onboard the vessel and/or rescue boat • Understand what may affect the working range of a MSLD: <ul style="list-style-type: none"> ○ Attenuation <ul style="list-style-type: none"> ▪ Antenna height above water ▪ Antenna length ▪ Transmitter Power ○ Temperature 	<p>Manufacturers detailed instructions</p> <p>Organisation or vessel specific MSLD systems</p>
1.8.4	<p>Use of Pyrotechnics</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the hazards and risks involved in using pyrotechnics: <ul style="list-style-type: none"> ○ Hand held flares ○ Rocket fired flares ○ Smoke • Be able to apply mitigation appropriate to hazards and risks • Be aware of the certification process for the equipment • Be able to operate pyrotechnics appropriate to the manufacturers detailed instructions 	
1.8.5	<p>Use of Emergency Position Indicating Radio Beacon equipment (EPIRB) and Search and Rescue Transponders (SART)</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the different types of EPIRB's and SART's used 	

	<p>by the organisation</p> <ul style="list-style-type: none"> • Understand the differences between a EPRIB and SART and the systems they operate to: <ul style="list-style-type: none"> ○ COSPAS-SARSAT ○ 9GHz Marine Radar • Be able to operate an EPRIB and SART appropriate to the manufacturers detailed instructions • Be aware of the certification process for the systems • Understand the implications of activating an EPIRB or SART inappropriately 	
1.8.6	<p>In-sea Personnel Survival</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the main hazards to a victim involved in Man Overboard: <ul style="list-style-type: none"> ○ Exposure (Hypothermia/Cold Shock) ○ Drowning ○ Post Rescue Collapse • Understand the survival factors <ul style="list-style-type: none"> ○ Knowledge of equipment and how to use them correctly: <ul style="list-style-type: none"> ▪ (EPRIB/MSLD/SART/RADAR reflectors, etc) ○ Knowledge of the survival equipment and how to use it correctly: <ul style="list-style-type: none"> ▪ PFD ▪ Life-raft ▪ Survival/work suit ▪ Organisation specific equipment (John Buoys/Dan Buoys etc) ○ Will to survive • Know how to conserve energy <ul style="list-style-type: none"> ○ Heat Escape Lessening Position (HELP) position ○ Group huddle • Know the correct swimming technique to be used when wearing a lifejacket <ul style="list-style-type: none"> ○ Back Stroke • Know how to join a group of personnel together • Know how to operate a life-raft • Know how to right a life-raft • Know how to enter a life-raft • Know how to gain access to a rescue boat 	<p>This Educational Specification may be covered by; E.S 1.11.1 STCW 95 A-VI/2-I Proficiency in Survival Craft and Rescue Boats other than Fast Rescue Boats or STCW 95 A-VI/2-2 Proficiency in Fast Rescue Craft</p>

	<ul style="list-style-type: none"> ○ Aided ○ Unaided • Know how to assist another person’s entry into a life raft or rescue boat • Understand the system used by the organisation in order to carry out the search and recover a person from the sea 	
1.8.7	<p>Search and Rescue (SAR)</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Demonstrate the use of the organisations specific direction finding (DF) equipment • Understand how environmental conditions may affect the use of SAR equipment • Understand how attenuation may reduce the effectiveness of SAR equipment • Understand the various international or common search patterns employed in the maritime industry • Be able to apply SAR techniques appropriate the organisation/vessels procedures • Demonstrate the use of the organisations specific personal rescue devices fitted to a boat • Be able to manoeuver a boat alongside a person in water • Understand different methods that can be employed to recover a person from the sea 	<p>STCW - 95 A-VI/1-1 Personal Survival Techniques</p> <p>This Educational Specification may be covered by; E.S 1.11.1 STCW 95 A-VI/2-1 Proficiency in Survival Craft and Rescue Boats other than Fast Rescue Boats or STCW 95 A-VI/2-2 Proficiency in Fast Rescue Craft</p>
1.8.8	<p>In-sea Medical First Aid</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the potential hazards and risks associated with effecting the rescue of a distressed person in water: <ul style="list-style-type: none"> ○ Confusion ○ Panic ○ Fatigue ○ Uncontrolled or irrational physical response ○ Distressed person level of fitness ○ Your own person fitness ○ Muscle cramps ○ Hypothermia • Know how to approach a conscious casualty when swimming • Know how to approach an unconscious casualty when swimming 	<p>STCW - 95 A-VI/1-1 Personal Survival Techniques</p> <p>This Educational Specification may be covered by; E.S 1.11.1 STCW 95 A-VI/2-1 Proficiency in Survival Craft and Rescue Boats other than Fast Rescue Boats or STCW 95 A-VI/2-2 Proficiency in Fast Rescue Craft</p>

	<ul style="list-style-type: none"> • Be able to maintain the airway of an unconscious person in the water • Swimming and towing a casualty <ul style="list-style-type: none"> ○ With a floatation device ○ Without a floatation device <ul style="list-style-type: none"> ▪ Cross-Chest tow ▪ Extended chin tow ▪ Close chin tow • Be able to adjust or inflate another person's PFD in water 	
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Operator Skill Module 8 - Small Boats - Marine Operations		
Competency Objective	1.0	Coxswain
Enabling Objective	1.9	Seamanship
Amendment Number	0	Draft

Assessment Criteria	Theory and Practical
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Educational Specifications		
E.S	Specification	References
1.9.1	<p>Situational Awareness</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to recognise and react appropriately to subtle changes in the environmental conditions that may affect the operation: <ul style="list-style-type: none"> ○ Sea State ○ Wind Speed ○ Wind Direction ○ Light Levels ○ Storm clouds ○ Visibility ○ In-sea hazards <ul style="list-style-type: none"> ▪ Ice ▪ Floating islands ▪ Fish traps/lines ▪ Fishing • Be able to recognise and react appropriately to subtle or dramatic changes to the operation: <ul style="list-style-type: none"> ○ Boats dynamic movement ○ Boats trim ○ Obstacles ○ 3rd Party vessels and boats • Be able to recognise and react appropriately to subtle or dramatic changes/failures of a system or group of systems: <ul style="list-style-type: none"> ○ Launch/Recovery system ○ Release mechanism ○ Painter line ○ Propulsion ○ Steering ○ Engine temperature ○ Fuel system ○ Steering ○ Activation of one or more boats' alarms <ul style="list-style-type: none"> ▪ Fire 	

	<ul style="list-style-type: none"> ▪ Engine Oil Pressure ▪ Engine Temperature ○ Hydraulics ○ Cable lifting devices ○ Ropes and lines 	
1.9.2	<p>Sea Conditions</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand how waves are formed: <ul style="list-style-type: none"> ○ Fetch ○ Wind duration ○ Wind strength • Understand and be able to recognise and interpret common definitions for sea conditions: <ul style="list-style-type: none"> ○ Wave height ○ Wave length ○ Wave frequency ○ Swell ○ Significant wave height • Be able to interpret meteorological forecasts • Be able to describe how the following may impact on small boat operations: <ul style="list-style-type: none"> ○ Currents ○ Tides ○ Salinity • Understand the definitions for sea direction in relation to a boat: <ul style="list-style-type: none"> ○ Head seas ○ Following seas ○ Beam-on seas ○ Quarterly seas • Be able to apply mitigation appropriate to the sea conditions and their impact on an operation 	
1.9.3	<p>Weather Conditions</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand how the following weather conditions will impact on small boat operations: 	

	<ul style="list-style-type: none"> ○ Ambient temperature ○ Water temperatures ○ Visibility ○ Nautical twilight ○ Storms ○ Electrical storms ○ Wind Speed ○ Wind directions ○ Snow ○ Hail Storms • Be able to apply mitigation for weather related impacts 	
1.9.4	<p>Ropes</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to identify the different types of ropes commonly used for small boat operations • Be able to identify the strengths and weaknesses of each type of rope • Be able to identify the correct type of rope for a given task or process, for example: <ul style="list-style-type: none"> ○ Polyamide ○ Polyester ○ Polypropylene ○ Polyethylene ○ Polyolefin • Be able to identify conditions that may affect the strength of a rope or cause wear and tear: <ul style="list-style-type: none"> ○ Exposure to sunlight (UV Light) ○ Chemicals ○ Handling ○ Storage ○ Wear ○ Crows-footing ○ Chafing ○ Rust ○ Heat • Understand the hazards and risks associated with working with ropes: <ul style="list-style-type: none"> ○ Standing in the bight of a rope ○ Standing in the coil of a rope 	

	<ul style="list-style-type: none"> ○ Straddling a rope ○ Ropes under tension <ul style="list-style-type: none"> ▪ Snap Tension ▪ Snap back zones ○ Friction burns - handling ropes without gloves ○ Wearing rings and watches • Be able to apply the appropriate mitigation for working with ropes • Be able to tie common knots and hitches, for example: <ul style="list-style-type: none"> ○ Bowline ○ Sheet-bend ○ Clove Hitch ○ Reef Knot ○ Figure of Eight ○ Round turn and two half hitches • Be able to store/prepare ropes, for example: <ul style="list-style-type: none"> ○ Coil ○ Cheesing ○ Faking • Understand the different types of line used to pass a rope: <ul style="list-style-type: none"> ○ Heaving Line ○ Messenger Line 	
1.9.5	<p>Whipping, Dogging and Splicing</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Identify the different methods of splicing used within the organisation • Be able to make the following different forms splice, for example: <ul style="list-style-type: none"> ○ Back splice ○ Eye splice ○ Hard eye splice ○ Short splice • Understand the limitations of each type of splice and where they should be used 	
1.9.6	<p>Use of a compass and taking Bearings</p> <p>The delegate shall:</p>	

	<ul style="list-style-type: none"> • Understand the different types of north: <ul style="list-style-type: none"> ○ True North ○ Grid North ○ Magnetic North • Understand what magnetic variation is • Be able to take a bearing with a marine compass • Be able to navigate a small boat back to its mother vessel using a compass bearing and the boats speed 	
1.9.7	<p>Navigational Lights and Day Shapes</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Understand the different types of navigational lights and day shapes used onboard a vessel or boat 	IMO - Convention on the International Regulations for Preventing Collisions at Sea, 1972 (COLREGs)

Operator Skill Module 8 - Small Boats - Marine Operations		
Competency Objective	1.0	Coxswain
Enabling Objective	1.10	Planned Maintenance System

Amendment Number	0 Draft
Assessment Criteria	Theory and Practical

Educational Specifications		
E.S	Specification	References
1.10.1	<p>Planned Maintenance System</p> <p>The delegate shall:</p> <ul style="list-style-type: none"> • Be able to extract information: <ul style="list-style-type: none"> ○ Work Orders ○ Manuals • Be able to input information: <ul style="list-style-type: none"> ○ Update records ○ Raise Non-Conformances • Understand the difference between: <ul style="list-style-type: none"> ○ Preventative Maintenance ○ Corrective Maintenance ○ Curative Maintenance 	

Operator Skill Module 8 - Small Boats - Marine Operations		
Competency Objective	1.0	Coxswain
Enabling Objective	1.11	International Maritime Organisation

Amendment Number	0 Draft
Assessment Criteria	Theory and Practical

Educational Specifications		
E.S	Specification	References
1.11.1	STCW 95 A-VI/2-1 Proficiency in Survival Craft and Rescue Boats other than Fast Rescue Boats	The International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW) Manila 2010 Amendments
1.11.2	STCW 95 A-VI/2-2 Proficiency in Fast Rescue Craft	

Small Boat - Matrix of Permitted Operations					
Force	Wind Speed	Force	Wind Speed	Force	Wind Seed
0	Less than 1 knot	4	11 - 16 knots	8	34 - 40 knots
1	1 - 3 knots	5	17 - 21 knots	9	41 - 47 knots
2	4 - 6 Knots	6	22 - 27 knots	10	48 - 55 knots
3	7 - 10 knots	7	28 - 33 knots	11	56 - 63 knots

The Master has final Judgment – this is only a guideline for operations

1. It is prohibited to carry out in-sea maintenance tasks on Gun Arrays, Lead In and Deflectors

2. All tasks listed are to be Risk Assessed

3. Boat speed should be appropriate to the Sea Conditions, Weather Conditions and potential in-sea hazards such; ice, logs and other small boats

4. The Fast Rescue Boat may only be used in exceptional cases to carryout streamer cleaning or cable mounted device change

> Greater than		< Less than		Task																
				Personal Transfer			Stores Transfer	Navigation and Tail Buoy Clearing	Streamer Cleaning	Equipment Change					Maintenance or Inspection		Inspection		Towing a Small Boat	MOB or Medical Emergency
				Davit to Ladder	Boat to Boat	Davit to Davit				Section	Module	Navigation Buoy	Tail Buoy	Cable Mounted Device	Navigation Buoy	Tail Buoy	Front End	Deflector		
Boat	Work Boat	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Fast Rescue Boat	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Small Boat Competency and Training (See levels below)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
Environmental Constraints	Wind Speed >Force 6 (22 - 27 knots)	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	
	Wave Height <3m (Extremely long Swell)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Wave Height <2m	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Twilight	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	
	Visibility <5nm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Visibility <1nm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Electrical Storms	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	
	Ice - Drift (Assess for size, density and visibility of ice)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Ice - Pack	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	
	Floating Debris (Assess for potential fouling of propulsion and visibility)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Recovery achievable 30 minutes before Twilight	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Operational and Security Constraints	Absence of Supporting Vessel and Rescue Boat	N/A	N/A	N/A	N/A	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	
	Absence of Supporting Vessel	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Distance >10nm from mother vessel	No	No	No	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes		
	Helicopter Operations	Yes - prior to helicopter landing and until helicopter lifts off the deck boats are to suspend any operation and standby																	Yes	
	Close Pass	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
	Piracy (Guard Vessel within 1nm of small boat)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Piracy (Absence of Guard Vessel)	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	
Territory Disputes<5nm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		

Risk Level	Risk Control Management	Small Boat Competency and Training - Acceptance per Risk Level			
		Secondary Coxswain	Back Up Coxswain	Small Boat Crew	Trainees - Seismic Activities
Low	Manage for Continuous Improvement	Yes	Yes	Yes	Yes
Medium	Incorporate Risk Reduction Measures	Yes	No	Yes	No
High	Intolerable Risk	No	No	No	No

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