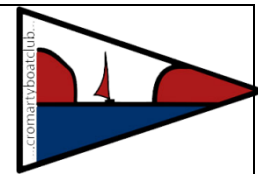


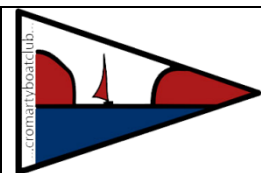
RISK ASSESSMENT CBC-001



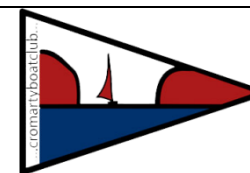
Site:	Cromarty Firth	Location of Task:	Within the Confines of Cromarty Boat Club Moorings Site
Description of Task:	Lifting, maintenance and laying of moorings using barge		Page: 1 of 7

Critical Activities	✓	Hazards	✓	Risk	✓
Work at Height		Oxidants		Environmental Discharge	
Work over Water	✓	Inert Gas		Fire/Explosion	✓
Manual Handling	✓	Flammable Gas/Vapour		Structural Damage	
Mechanical Lifting Crane / FLT		Toxic Gas/Vapour		Pinch Points	✓
Lifting Equipment	✓	Inhalation of Dust/Fumes		Gas	
Machinery (moving parts, ejection)	✓	Corrosives		Damage to Equipment	✓
Power Tools	✓	Chemicals		Injury to Personnel	✓
Hand Tools	✓	Fuel Oil	✓	Infection	
Welding / Cutting		Lubricants		Fatal Injury	✓
Water Jetting		Biological Agents		Asphyxiation	
Excavation		Noise		Drowning	✓
Confined Space Entry		Vibration		Skin Sensitisation	
Process Isolation		Electrical Energy	✓	Corrosive Injury	
Electrical Isolation		Puncture/Stabbing		Toxic Effect	
Work on Safety Systems		Entanglement	✓	Radiation Overdose	
Breaking Containment		Friction/Abrasion	✓	Electric Shock	
Pressure/Leak Testing		Crushing/Trapping	✓	Fatigue/Exhaustion	✓
Diving Related		Illumination	✓	Stress	
Use of Moorings Barge	✓	Weather Conditions	✓	Gas Cylinders/Hoses	
Stacking/Storage		Lack of Competency	✓	Radiated Heat	
Visual Display Unit		Housekeeping	✓		
Hot Work	✓	Access / Egress	✓		
Grit Blasting		Falling	✓		
Excavation		Restricted Access			
Adjacent Work		Slip/Trip/Fall	✓		
Travelling		Excessive Hours	✓		
		Dropped Object	✓		

LEGEND: L = Likelihood S = Severity IR = Initial Risk Rating RR = Residual Risk



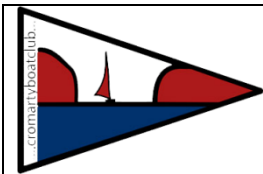
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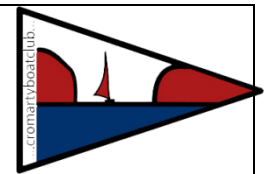
Site:	Cromarty Firth	Location of Task:	Within the Confines of Cromarty Boat Club Moorings Site
Description of Task:	Lifting, maintenance and laying of moorings using barge		Page: 2 of 7

Hazard	L	S	IR	Control Measures to be applied	L	S	RR	Accept
<u>Working Over Water</u> Injury to Personnel / Drowning	3	4	12	Life Jackets to be worn by all personnel whilst on the barge. Life Jacket to have been serviced and be inspected prior to use. Guardrails (and chain at point of access / egress) to be in place. Personnel to keep clear of fore and aft if unguarded. Lifebuoy and / or throwing line and boat hook to be carried on board the barge. A maximum of five persons on the barge when at sea. Fatigue and personal abilities must be considered and recognised. Under no circumstances shall anyone under the influence of alcohol or drugs (including prescribed drugs) be permitted on the barge or be involved in any work activity associated with the barge.	2	2	4	Yes
<u>Letting go mooring block and/or riser assembly</u> Injury to Personnel / Drowning	4	4	16	Keep chain / rope riser assembly organised and tidy before letting go to prevent snagging. Ensure all persons are clear before letting go. Bolt cutters and hacksaw shall be included in the on-board tool kit.	2	2	4	Yes
<u>Poor Housekeeping</u> Tripping Hazards / Entanglement / Dropped Objects	5	2	10	As far as reasonably practicable, deck areas to be kept tidy and clear of any tripping hazards. Lines to be neatly coiled and stored / tools and equipment to be stored when not in use. Bolt cutters and hacksaw shall be included in the on-board tool kit. Robust footwear to be worn.	2	2	4	Yes
<u>Weather Conditions</u> Injury to Personnel Damage to Equipment	2	4	8	The weather conditions shall be taken into account at all times and under no circumstances shall the barge be taken out to sea in adverse conditions. Under no circumstances should the barge be used other than in good daylight / visibility.	2	2	4	Yes
<u>Lack of Competency</u> Damage to Equipment Injury to Personnel	4	3	12	Two or more members of the Moorings Working Group to be present when using the barge, one of which is to be elected as person in charge. Cognisance must be taken with regard to inexperienced personnel. A Toolbox Talk shall be held to relay requirements prior to work commencing.	2	3	6	Yes
<u>Communications</u> Delay in rescue by emergency services	3	3	9	A tested means of communication (VHF / mobile phones) shall be available. Port of Cromarty Firth shall be informed prior to taking the barge to sea (VHF Ch 11)	2	3	6	Yes

LEGEND: L = Likelihood S = Severity IR = Initial Risk Rating RR = Residual Risk

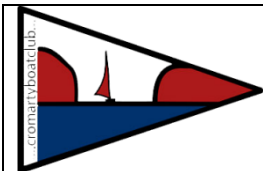


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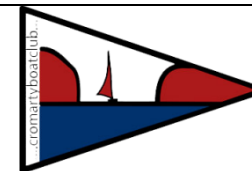


Site:	Cromarty Firth	Location of Task:	Within the Confines of Cromarty Boat Club Moorings Site
Description of Task:	Lifting, maintenance and laying of moorings using barge		Page: 3 of 7

Hazard	L	S	IR	Control Measures to be applied	L	S	RR	Accept
Access / Egress Injury to Personnel / Drowning	3	3	9	When tying up alongside the pontoon, the barge shall be positioned port side to. Mooring lines shall be attached to deck mounted cleats or shackles and not to the detachable guardrails. Lifejackets to be worn.	2	3	6	Yes
Use of Equipment / Tools Injury to Personnel (friction / abrasion / crushing / trapping / electric shock / exposure to substances)	4	3	12	Personnel to be aware of pinch points and care to be taken when handling ropes / lines. Suitable gloves to be worn (i.e. impact gloves – available in the workshop) when handling winch wire and chain. Only one person to be giving instructions to person in control of electric winch. Winch wire / rope to be inspected prior to use. Persons to keep clear of winch wire / rope under tension (line of fire). Eye protection (goggles) and gloves to be worn when using tools such as grinders. A basic First Aid Kit shall be available on the barge. Bolt cutters and hacksaw shall be included in the on-board tool kit. Battery to be protected within its enclosed box. Hands and face to be protected from engine or winch lubricants.	2	3	6	Yes
Manual Handling Injury to Personnel	3	2	6	Personnel to be aware of their physical capabilities and make use of mechanical winches whenever possible to prevent any injury. Prior to any work activity, personnel are to refer to manual handling guidance displayed in the workshop.	3	2	6	Yes
Engine Failure Injury to Personnel Damage to Equipment	3	2	6	Outboard motor to be serviced regularly and maintained to a high standard. Oars to be carried on board (available in workshop). Anchor to be carried on board.	3	2	6	Yes
Fire Injury to Personnel Damage to Equipment	3	4	12	The outboard motor to be serviced regularly and maintained to a high standard. The outboard engine fuel container to be securely fastened to the deck. Smoking is not permitted on or in the vicinity of the barge. A suitable fire extinguisher to be carried on the barge.	2	3	6	Yes



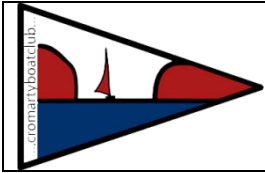
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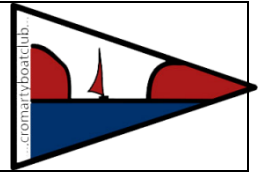
Site:	Cromarty Firth	Location of Task:	Within the Confines of Cromarty Boat Club Moorings Site
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RISK RATING MATRIX		Likelihood				
		<Low (1) Not credible i.e. the team have never heard of event occurring in industry	Low (2) Conceivable but would require multiple failures of systems and controls	Medium (3) Less than average i.e. easy to postulate a scenario for accident but considered unlikely	>Medium (4) More than average i.e. the team do not have direct knowledge but suspect that event may have occurred and represents a credible scenario	High (5) Likely to occur and the team have knowledge of a similar event
Severity (consequences)	<Low (1) Negligible injury or health implications, no absence from work. Negligible loss of function or production with no damage to equipment or the environment	1	2	3	4	5
	Low (2) Minor injury requiring first-aid treatment or headache, nausea, dizziness, mild rashes. Damage to equipment requiring minor remedial repair, loss of production or impact to the environment	2	4	6	8	10
	Medium (3) Event leading to a Lost Time Incident or persistent dermatitis, acne or asthma. Localised damage to equipment requiring extensive repair, significant loss of function or production or moderate pollution incurring some restitution costs	3	6	9	12	15
	<Medium (4) Involving a single death or severe injury, poisoning, sensitisation or dangerous infection. Damage to equipment resulting in production shutdown and significant production loss. Severe pollution with short-term localised implications incurring significant restitution costs	4	8	12	16	20
	High (5) Multiple deaths, lung diseases, permanent debility or fatality. Major pollution with long-term implication and very high restitution costs	5	10	15	20	25

1 - 6	MAY BE ACCEPTABLE: however, review task to see if risk can be reduced further
8 - 12	TASK SHOULD ONLY PROCEED with appropriate management authorisation after consultation with specialist personnel and assessment team. Where possible, the task should be redefined to take account of hazards involved or the risk should be reduced further prior to task commencement.



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Site:	Cromarty Firth	Location of Task:	Within the Confines of Cromarty Boat Club Moorings Site
Description of Task:	Lifting, maintenance and laying of moorings using barge		Page: 5 of 7

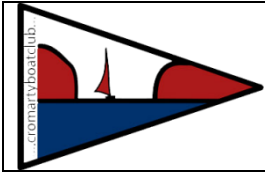
15 - 25	TASK MUST NOT PROCEED. It should be redefined or further control measures put in place to reduce risk. The controls should be re-assessed for adequacy prior to task commencement.
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Appropriate appointed person within the club is responsible for review, implementation and monitoring

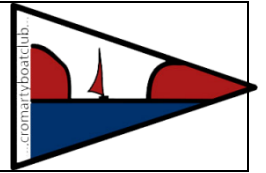
THIS RISK ASSESSMENT HAS BEEN PREPARED ON THE KNOWN WORKSCOPE BUT MUST BE CONFIRMED ON SITE BY COMPETENT PERSONNEL TO CONFIRM THAT ALL HAZARDS HAVE BEEN CORRECTLY IDENTIFIED AND THE APPROPRIATE CONTROL MEASURES SPECIFIED ARE IN PLACE

WHERE THE ACTIVITY, HAZARDS OR RISKS CHANGE, THE JOB SHOULD BE STOPPED AND SUITABLE CONTROLS AGREED AND IMPLEMENTED

<p>PERSONNEL ARE REQUIRED TO WEAR RELEVANT PERSONAL PROTECTIVE EQUIPMENT FOR TASKS BEING PERFORMED.</p> <p>RISKS ASSOCIATED WITH THE WORK AND SAFETY PRECAUTIONS / CONTROLS IN PLACE TO BE CONVEYED DURING INITIAL TOOL-BOX TALKS PRIOR TO COMMENCEMENT OF WORK.</p>			
PREPARED BY:	John Smith	POSITION:	Vice Commodore / Safety Advisor
		SIGNATURE:	DATE: 24/01/2020
CHECKED BY:	Moorings Working Group	POSITION:	DATE: 26/01/2020
		SIGNATURE:	DATE:
CONFIRMED BY:		POSITION:	DATE:
		SIGNATURE:	DATE:
CUSTOMER:		POSITION:	DATE:
		SIGNATURE:	DATE:



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Site:	Cromarty Firth	Location of Task:	Within the Confines of Cromarty Boat Club Moorings Site
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Hazard	Control Measures	In Place

