

Syllabus Report (SYL)

DefraPass® Water & Flood First Responder



DEFRA-MOD2:2019

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IQF Level	3	IQF Credit	3
Approved References	Swiftwater Rescue by Robert Kauffman RNLI Flood Rescue Manual The Essential Technical Rescue Field Operations Guide (6th ed.) by Tom Pendley Outreach Rescue Water & Flood Rescue Technician Manual Rescue 3 Europe Swiftwater & Flood Rescue Technician Manual Swiftwater Rescue by Slim Ray PSI eGuide Swiftwater Rescue App PSI Swiftwater Rescue Technician (SRTV®) PSI Body Recovery from Water DEFRA Flood Rescue Concept of Operations JESIP Joint Doctrine Guide RNLI Incident Command Training Manual		
Special Notes			

Prerequisites

1	DefraPass® Water & Flood Awareness
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Describe water rescue incident management structure as a responder

MOD2K01

Performance	Describe or illustrate water rescue incident management structure as a responder
Standards	Roles identified in accordance with approved references.
Conditions	Given a theoretical scenario or case study.
Comments	Must include at least roles (modules 1-5 and Team Commander), and clearly articulates the role and limitation of water rescue wading responders (Module 2) at water incidents.

Recall dynamic risk assessment model suitable for water rescue

MOD2K02

Performance	Recall and describe a dynamic risk assessment model
Standards	In accordance with agency doctrine or approved references.
Conditions	
Comments	May include Safe Person Concept, ECHO Risk Assessment etc.

Demonstrate knowledge of basic water search doctrine

MOD2K03

Performance	Explain key terms and concepts relating to water search.
Standards	In accordance with approved references, with DEFRA Flood Rescue Concept of Operations taking primacy.
Conditions	Given a list of key terms and concepts (see range below).
Comments	Must include, but not limited to: Point Last Seen, Point Last Known, Initial Visual Checks, Systematic Search (Low and High Assurance), techniques (line, corridor, parallel track), police responsibility of missing persons in the UK, immediate search considerations, search resources.

Identify and describe specialist water rescue equipment

MOD2K04

Performance	Identify specialist water rescue equipment and describe their purpose, advantages and disadvantages.
Standards	In accordance with approved references and manufacturers instructions.
Conditions	Given range of equipment as per range (see below).
Comments	Must include, but not limited to: inflatable adjuncts, ropes for water rescue, technical hardware, unstable ground equipment.

Demonstrate knowledge of casualty management issues specific to water rescue		MOD2K05
Performance	Demonstrate knowledge of casualty management issues specific to water rescue	
Standards	In accordance with approved references.	
Conditions	Given range of issues and considerations as per range (see below).	
Comments	Must include, but not limited to: drowning resuscitation protocols, identification and treatment of hypothermia, identification and treatment of spinal injury, casualty handling of bariatric casualties,, hydrostatic squeeze. Academic references includes related publications including from Prof. Mike Tipton https://www.researchgate.net/profile/Mike-Tipton	
Demonstrate knowledge of personal health and safety management for flood rescue		MOD2K06
Performance	Identify potential health and safety impacts on responders working in flood water, and identify means to mitigate these.	
Standards	In accordance with approved references and current medical practices.	
Conditions	Given range of issues and considerations as per range (see below).	
Comments	May include but not limited to: infection prevention, contamination prevention (inhalation, absorption, ingestion), vaccinations (hepatitis, tetanus), personal fitness, mental state, dehydration, hypothermia, hyperthermia.	
Demonstrate knowledge of entrapment hazard in water and flood rescue		MOD2K07
Performance	Identify causes of entrapment in water and flood rescue and means to prevent and intervene to such occurrences.	
Standards	In accordance with approved references.	
Conditions	Given a theoretical scenario involving a casualty suffering a foot or body entrapment in flowing water.	
Comments	Must include: supporting tag lines, use of cinches.	
Demonstrate knowledge of lock and sluice hazards in water and flood rescue		MOD2K08
Performance	Identify hazards associated with locks and sluices associated with water and flood rescue and means to prevent and intervene to such occurrences.	
Standards	In accordance with approved references.	
Conditions	Given a theoretical scenario involving a casualty in water in or around a lock and/or sluice.	
Comments	Must include: characteristics, design/hydrology, specific rescue techniques.	
Demonstrate knowledge of vehicle hazards in water and flood rescue		MOD2K09
Performance	Identify hazards associated with vehicles in flowing water and identify means to manage risk for, and intervene to such occurrences.	
Standards	In accordance with approved references.	
Conditions	Given a theoretical scenario involving a vehicle in flowing water with occupants inside.	
Comments	Must include: vehicle behaviour, hydrology, access and stabilisation techniques, safety considerations, vehicle escape.	
Demonstrate knowledge of mud and ice hazards in water and flood rescue		MOD2K10
Performance	Identify hazards associated with mud and ice associated with water and flood rescue and means to prevent and intervene to such occurrences.	
Standards	In accordance with approved references.	
Conditions	Given theoretical scenarios involving a casualty stuck in mud and fallen through ice.	
Comments	Must include: characteristics, medical issues, extrication techniques, contamination.	

Demonstrate knowledge of animal hazards in water and flood rescue	MOD2K11
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Performance	Identify hazards and risk management strategies for working with and rescuing animals during water and flood incidents.
Standards	In accordance with approved references.
Conditions	Given theoretical scenarios involving rescuing animals from a water or flood incident.
Comments	Must include: hazards and safety protocols. May include: zoonoses, bites, claws, muzzles, restraint equipment.

Identify hazards associated with night and reduce visibility during water rescues.	MOD2K12
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Performance	Identify hazards and risk management strategies for working at night during water and flood incidents.
Standards	In accordance with approved references.
Conditions	Given a theoretical scenario with reduced visibility or in set in darkness.
Comments	Must include: lighting, additional marking requirements, audible signals.

Identify hazards associated with working in flood water.	MOD2K13
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Performance	Identify hazards and risk management strategies for working in flood water.
Standards	In accordance with approved references.
Conditions	Given a theoretical scenario polluted flood water.
Comments	Must include: pollution/contamination, location and incident specific hazards, topography, storm drain entrapment, turbidity.

Determine the mode of a water rescue incident (rescue vs. recovery)	MOD2K14
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Performance	Calculate whether an incident is to be in rescue or recovery mode.
Standards	In accordance with UK Fire and Rescue Services water rescue casualty survivability model.
Conditions	Given a theoretical scenario and access to the water rescue casualty survivability model algorithm.
Comments	Refer DEFRA ConOps (2019), page 41, Figure 4.

Don and doff water and flood rescue PPE as responder	MOD2S01
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Performance	Don PPE including a minimum of PFD and helmet.
Standards	Within 120 seconds and then passes buddy check for donning.
Conditions	While already wearing wet- or dry-suit and suitable footwear.
Comments	May includes gloves. PFD may already be fitted with accessories such as strobe, karabiners, knife etc. Buddy check must ensure PFD and helmet are sized and fitted correctly, and quick release harness rigged correctly if fitted. Doffing must also be performed, with no time limit required.

Demonstrate swimming and maneuvering (Class I-II water)	MOD2S02
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Performance	Demonstrate defensive swim, aggressive swim, swiftwater entry, swiftwater egress, ferry glide, self-rescue
Standards	In accordance with approved references
Conditions	In Class I-II flow
Comments	

Use water rescue throwbag as responder		MOD2S03
Performance	Throw to victim	
Standards	Landing within reach of in-water victim, twice within 20 seconds, in accordance with approved references.	
Conditions	In Class I-II flow.	
Comments		
Perform shallow water crossing as part of a team (Class I)		MOD2S04
Performance	Perform wedge and line astern (mutual support) shallow water crossing with casualty	
Standards	Maintaining connectivity with team and casualty, in accordance with approved references.	
Conditions	Supported using pole or tether in Class I flow, no deeper than thigh height.	
Comments	Retreating to ensure safety should not constitute a failure	
Use raft or sled as evacuation device during wading operations (Class I-II)		MOD2S05
Performance	As part of a team, use a raft or sled to evacuate persons and/or animals.	
Standards	At least one victim (person or animal) is transferred to the craft and transported to safety, in accordance with approved references.	
Conditions	In water no deeper than chest height, in Class I-II flow.	
Comments	Wading operation only i.e. rescuers holding onto raft/sled while wading, casualties may be on the raft/sled. Not used a work platform or to maneuver personnel.	
Work as part of a team to apply role of water first responder		MOD2S06
Performance	As part of a team, apply the role of water first responder.	
Standards	Incident management structure implemented effectively.	
Conditions	Given a water incident scenario requiring responder support or initial response.	
Comments	Candidate must ensure they comply with JESIP inter-agency doctrine and ensure the safety, health and welfare of themselves and others whilst carrying out responder level tasking.	
Apply knowledge of hydrology and identify associated hazards		MOD2S07
Performance	Recognises water features at and identifies associated hazards.	
Standards	In accordance with approved references. May include, but not limited to: recirculation, weir, cushion/buffer wave, strainer, undercut, sieve, intake, upstream V.	
Conditions	Given a water incident scenario requiring responder support or initial response.	
Comments	This generally requires candidate to practically identify water features during initial size-up (i.e. verbally to assessor is sufficient) .	
Minimum delivery hours verified by Assessor		MODXA01
Performance	Assessor verifies candidate has completed minimum delivery hours required.	
Standards	As specified in the respective DEFRA training module outline.	
Conditions	Varies with Module - refer DEFRA training module outline.	
Comments	Assessor must be satisfied candidate has met the requirements, which may include sighting training certificate, training record, learning management system record, supervisor attestation, or direct verbal or written confirmation from instructor. Refer to DEFRA Flood Rescue Concept of Operations.	