



Search & Recovery Lecture 4



Equipment



We Will Cover

- Introduction
- Suit / gloves
- Harness / lifeline / BCD
- Facemask / regulator / octopus
- Lighting
- Cutting
- Weight
- Communications





Introduction

- Service certificate per CFT or manufacturer for all equipment used
- Suitable for purpose intended
- If unsuitable, replace or discard





Suit / Gloves

- Dry-suits (neoprene/membrane)
 - If risk of cold / contamination
- Semi-dry suits
 - If water not cold or polluted
- Gloves
 - Latex gloves if handling casualty
 - Latex gloves if working in polluted waters
 - Dry gloves in pollution / cold / sharp objects





Harness / Life-line / BCD

- Full harness
- Life-line
- Buoyancy devices





Face mask

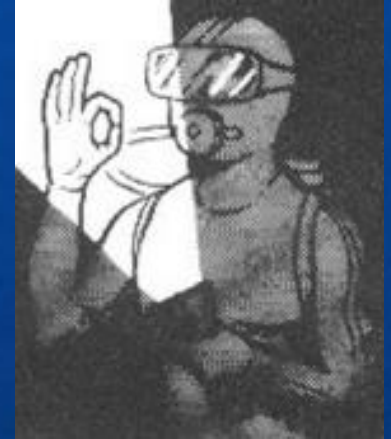
- Half face (SCUBA) when no pollution risk – used with standard regulator
- Full face mask with lanyard attached
 - Full face mask training course before use
- Octopus - accessible





Lighting

- Torches
 - in dark waters or at night
 - hand or helmet mounted
- Strobes
 - locating casualty / marking position
 - light sticks: marking swim lines, divers, shot lines, casualty
 - green marks divers / red marks shot/swim lines
- High visibility jacket





Cutting

- Knives
 - Essential - to cut ropes / nets
 - Keep sharp
- Shears
 - Like shears in first aid kit
- Net cutters / scissors
 - For cutting ropes / nets
- All to be Accessible with both hands





Weights and Buoys

- **Belts**
 - **Quick release: accessible by diver/buddy**
 - **Harness: quick release / accessible**
- **Buoys**
 - **SMB for locating divers, marking shot lines, search-lights, casualty or cars**



Communications

- Hand signals per CFT
- Recall signal per CFT – 3 long engine revs
- Radio communications: full-face masks fitted with radio communications



Rope Signals

- **Rope should be clearly distinguishable**
- **Not to be used for any other purpose other than signalling**
- **All other pulls: slow strong pulls with a positive gap between each pull**
- **All signals must be returned**



Rope Signals

- **1 tug means attention, when this is given then the diver faces the rope attendant**
- **2 tugs means turn left**
- **3 tugs means turn right**
- **4 tugs means for diver to surface**
- **Rapid succession from diver indicates a problem/ emergency**
- **Diver to return tugs before following command**



Rope Signals

- **Can be very difficult in fast flowing water**
- **Can also be difficult in water with obstructions**
- **Requires a lot of practise , to be proficient**



Rope Signals





Summary

- Introduction
- Suit / gloves
- Harness / lifeline / BCD
- Facemask / regulator / octopus
- Lighting
- Cutting Devices
- Weight
- Communications