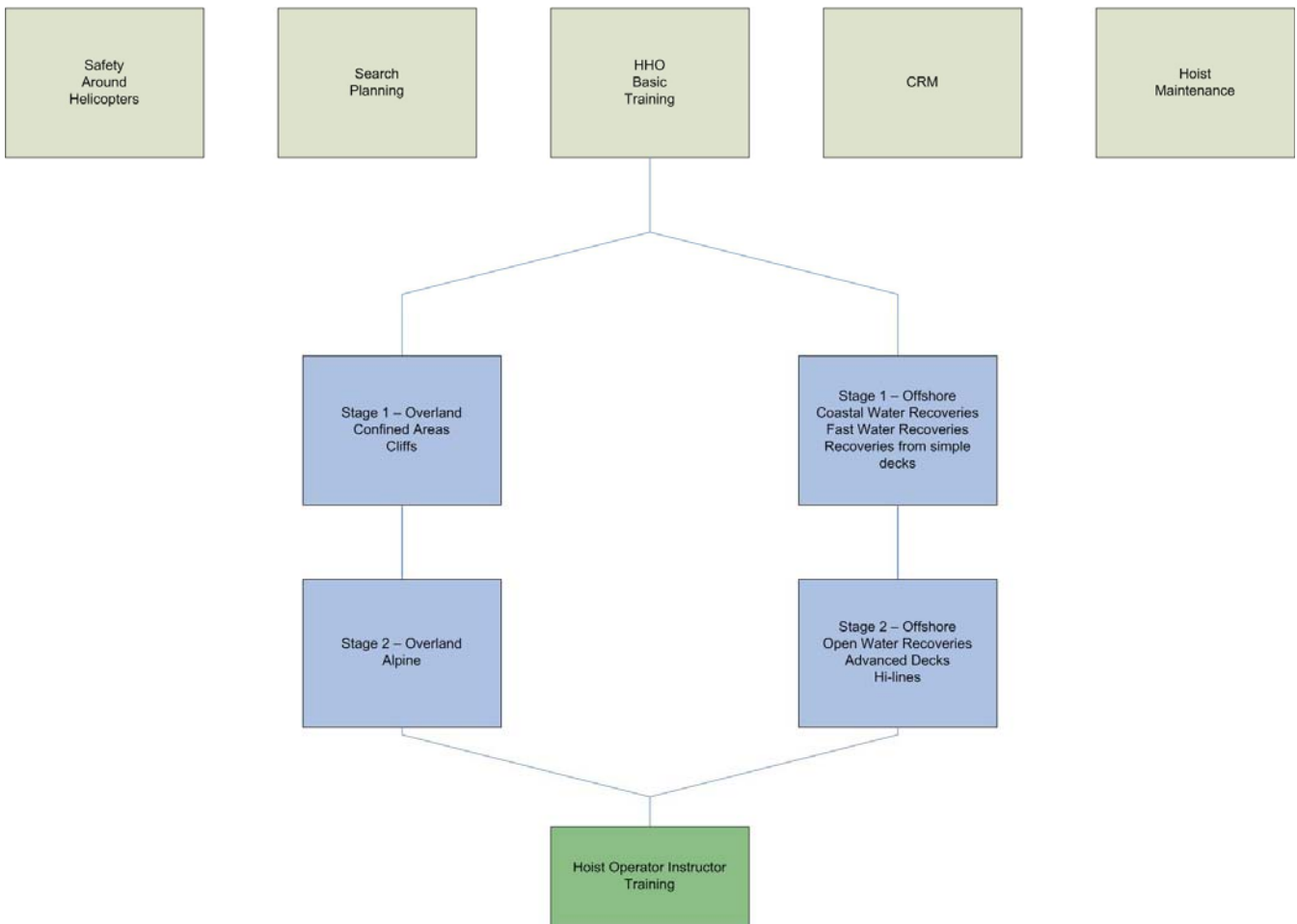


OUTLINE OF COURSES & TRAINING



HHO BASIC TRAINING

Our HHO (Helicopter Hoist Operations) Basic Training is a ground and flying course aimed at those pilots, hoist operators/technicians and downline rescue personnel who are new to HHO work. It is the first building block in a series of courses that prepares personnel to operate helicopters in SAR and other HHO applications. During this basic training, crews gain the fundamental skills to operate the helicopter and hoist in a safe and efficient manner. We establish a good technical background, teach normal and emergency procedures, and concentrate on maintaining a standardization and consistency of operation. From the outset crews are taught to recognise risk and take effective steps to mitigate against it. The course includes approx 5 hours flying per person.

Our training exceeds the JAR OPS 3.OO5(h) HHO requirements.

The following topics will be taught:

- Duties in the HHO role
- Installation and operation of the hoist
- Preparing the helicopter and special equipment for HHO
- Normal and emergency procedures
- Crew co-ordination concepts specific to HHO
- Operation of inter-communication and radio equipment
- Knowledge of normal and emergency hoist equipment
- Techniques for handling HHO passengers
- Effect of the movement of personnel on aircraft weight and balance during HHO
- Effect of the movement of personnel on performance during normal and emergency flight conditions
- Techniques for guiding pilots over HHO sites
- Awareness of specific dangers relating to the operating environment
- The dangers of static electricity discharge

SEARCH PLANNING

Our Search Planning Training is designed to give crews the essential tools to plan and execute a SAR mission. It includes a short revision of some basic aviation topics, and then introduces the standards and procedures laid out in the IAMSAR Vol 3 before allowing students to conduct some simple table-top exercises. Finally students are given an opportunity to put their newly acquired knowledge into practice during two flying sorties: one over land and one over water. The following list is a typical breakdown of instruction:

- Navigation Revision
- Simple Flight Planning
- Local Area ATC Regulations
- IAMSAR Vol 3 Planning Document
- SARSAT COSPAS System
- Aeronautical Rescue Coordination Centre Services
- Search Planning 1
- Search Planning 2
- Search Planning Exercise 1
- Search Planning Exercise 2
- Table Top Exercise – Multi Asset SAR Planning
- Pre-Flt Planning 1
- Overland Search - Flight 1
- Pre-Flt Planning 2
- Over water Search – Flight 2

The exact content of the course and the complexity of the flying scenarios will change dependant on customer requirements. It is possible to complete the course without a flying element if required.

CREW RESOURCE MANAGEMENT (CRM)

CRM encompasses a wide range of knowledge, skills and attitudes including communications, situational awareness, problem solving, decision making, and teamwork. The elements which comprise CRM are not new but have been recognised in one form or another since aviation began, usually under more general headings such as 'Airmanship', 'Captaincy', 'Crew Co-operation'.

We recognise that SAR or HHO flying brings an additional set of considerations that require specific examination. This is our focus main focus.

The exact content of our CRM courses changes depending on customer requirements and associated State/JAR regulations. However, the core topics remain the same and will include:

- Situational Awareness
- Planning and Decision Making
- Communications
- Teamwork
- Emotional Climate
- Risk Assessment
- Stress
- Fatigue
- The pressures of the 'Rescue Situation'

Course length, additional topics, class size and location can all be arranged to suit customer requirements.

SAFETY AROUND HELICOPTERS

There is a whole cross-section of people both in and out of the aviation industry who have a need to work in or around helicopters. In particular, many Doctors, Nurses, Paramedics, Police Officers, Fire Officers and Coastguard personnel play a vital part in transferring casualties to/from helicopters and hospitals. Additionally, these same professions provide people who are an integral part of the helicopter crew.

The Safety Around Helicopters course is designed to provide those people with no helicopter experience with some basic safety knowledge and awareness so that they do not put themselves or others in danger in the operating environment.

The course is mostly ground-based instruction that includes both formal lectures and activities in and around a helicopter. Normally the training concludes with some 'air experience' flying. The following topics are included:

- Ground hazards
- Simple helicopter principles of flight
- The dangers of turning rotors
- The dangers of downwash and noise
- Radios and intercom systems
- Hand signals
- Hoist and Longline equipment and techniques
- Safety and securing systems
- Equipment
- The principles of CRM

The length of course, exact content, class size and location is by negotiation with the customer.

HOIST MAINTENANCE TRAINING

It is widely known that the safety of those using rescue hoists can only be assured if proper maintenance and inspection routines are followed. Every hoist will have its respective inspection milestones and it is common for cables and other components to require replacing from time to time.

Additionally, it is important for hoist operators and 'downline' personnel to know that their equipment is fully functional and safe. Only then can they have proper trust in this equipment and be prepared to risk their lives and those of others in hazardous situations.

A key feature of our HHO teaching philosophy at HRC is *Safe Person, Safe Equipment and Safe Procedures*. Therefore, we strongly endorse the use of bespoke hoist cable inspection equipment like the *Zephyr Rescue Hoist Ground Support Equipment*.

We are able to run our Hoist Maintenance Training courses at customers' locations or at our facility at Ottobrun, near Munich. In either case, technicians are given a thorough background in hoist technology and in-depth instruction on inspection, maintenance and repair. The courses include both classroom lessons and 'hands-on' sessions using real hoist equipment. We also take time to explain how proper husbandry and equipment employment can prolong the life of the cable and other safety critical components.

We have a wide experience across most rescue hoist types and maintain all servicing documentation in accordance with manufacturers' servicing notes and amendments.

For an estimate of costs and course details call us with details of your helicopter type and hoist installation. We are always ready to offer advice and suggest the best solution to your requirement.

