

HEMS: BESPOKE TRAINING SOLUTIONS

INTRODUCTION

Leonardo Helicopters, Original Equipment Manufacturer (OEM) of AgustaWestland products, believes that providing world class training services and solutions is an essential part of LH commitment to support our customers in delivering operational success. To fulfill his commitments, Leonardo Helicopters maintains a worldwide network of Training Academies and approved training partners, as well as training at customer locations. Delivering upon our commitment to be closer to our customers, means allowing all operators to have access to world class OEM approved courses and simulation.

With dedicated operational training and expertise, we aim to enhance the safety and effectiveness of the HEMS Operations and to increasingly standardize the whole sector starting from the Flying Crew (Pilot, HEMS Crew Member, Rescueman) to the Medical Staff (Doctor, Nurse, Paramedic) with dedicated courses.

This will help the operators and generally the HEMS sector to increase their competence and coordination on board during operations.

 **AW TEAM UP**
EXCELLING TOGETHER

PILOT HEMS ADVANCED TRAINING

The aim of the course is to provide Pilots with the theoretical knowledge and practical skills necessary to perform safely and efficiently HEMS operations in the HEMS crew role.

Entry Requirements

- Valid pilot license with appropriate type rating
- Hold the appropriate medical certificate
- Possess an appropriate standard in written and spoken technical English

Programme

The course is designed according to EASA AIR OPS SPA. HEMS and provides flight training in the appropriate Level D Full Flight Simulator with real HEMS case scenarios and dedicated visual databases to include road accidents, hospitals, search and rescue at day/night, in marine, desert, urban or mountain environment. The training can also include Night Vision Imaging Systems (NVIS) and Performance Based Navigation (PBN).



HEMS MEDICAL PASSENGER TRAINING

The Aim of the course is to provide to the students the theoretical knowledge and practical skills necessary to perform safely and efficiently HEMS operations in the HEMS Medical Passenger role.

Entry Requirements

- Be at least 18 years old
- Hold a current medical flying category class 2
- Be a qualified doctor, state registered paramedic, state registered nurse
- Possess an appropriate standard in written and spoken technical English

Programme

The course is designed for day time activity only and includes classroom and practical ground training with mock-up, emergency room and climbing wall. Classroom activities provide an overview of general theoretical

knowledge on aviation (e.g. aviation terminology, theory of flight, helicopter familiarization) and aviation regulations. A thorough knowledge of CRM, Crew Cooperation and duties in the HEMS role, helicopter safety, Personal Protective Equipment (PPE*), communication, HEMS specificities (e.g. On-board medical equipment, HEMS kit, practice of response to HEMS call, hospital casualty reception). Simulator activities provide a thorough knowledge of harness and seating configuration, Normal, abnormal and emergency procedures, stretcher loading-unloading, techniques for handling patients, location and use of the on-board fire extinguisher, simulation of HEMS scenarios, practical safety and rescue activities on the climbing wall (use of PPE and rescue equipment).

Optional:

- HEMS HHO passenger training



INITIAL TECHNICAL CREW MEMBER TRAINING (Ab-initio)

The aim of the course is to provide to the ab-initio students the theoretical knowledge and practical skills necessary to perform safely and efficiently their duties as Technical Crew Member before commencing further training on the type and in the dedicated role.

Entry Requirements

- Be at least 18 years old
- Hold a current medical flying category class 2
- Possess an appropriate standard in written and spoken technical English

Programme

The course is designed for day time activity only and includes practical ground training in classroom and on the mock-up. This course provides an overview of general theoretical knowledge on aviation (e.g. aviation terminology, theory of flight) and aviation regulations covering all elements relevant to the duties and responsibilities, fire and smoke training, aero-medical aspect, communication and relevant CRM of ORO.FC.115 and ORO.FC.215.

Optional:

- Aircrew Helicopter Type Familiarization
- aircrew Familiarization Flight

Note: this course is for ab-initio only

HEMS TECHNICAL CREW MEMBER TRAINING

The aim of the course is to provide to the students the theoretical knowledge and practical skills necessary to perform safely and efficiently HEMS operations in the HEMS Technical Crew role.

Entry Requirements

- Be at least 18 years old
- Hold a current medical flying category class 2
- Have successfully completed the Initial Technical Crew

Member Course

- Possess an appropriate standard in written and spoken technical English

Programme

The course is designed for day time activity only and includes practical ground training in classroom and on the mock-up. Classroom activities provide a thorough knowledge of crew cooperation and duties in the HEMS role, helicopter safety, Personal Protective Equipment (PPE), HEMS specificities (on-board medical equipment, HEMS kit, practice of response to HEMS call, hospital casualty reception).

Simulator activities provide a thorough knowledge of normal, abnormal and emergency procedures, stretcher loading-unloading, techniques for handling patients, location and use of the on-board fire extinguisher and simulation of HEMS scenarios.

In addition and according to the customer needs the student should complete a front seat training. This activity is shared between Classroom, VIPT and FTD and includes navigation, map reading, radio com/nav, check-list, parameters monitoring and collision avoidance courses.

Optional:

- Aircrew Helicopter Type Familiarization Course
- Helicopter Hoist Operation Technical Crew Member Course



HELICOPTER HOIST OPERATIONS (HHO) TECHNICAL CREW MEMBER TRAINING

The aim of the course is to provide to the ab-initio or low experience students the theoretical knowledge and practical skills necessary to perform basic operations with the rescue hoist system. It covers the necessary aspects of helicopter safety, preparation and hazard mitigation.

Entry Requirements

- Be at least 18 years old
- Hold a current medical flying category class 2
- Have successfully completed the Initial Technical Crew Member Course
- For HEMS operators, have successfully completed the HEMS Technical Crew Member Course
- Possess an appropriate standard in written and spoken technical English

Programme

This course is designed for overland day time and includes practical activities on ground followed by a flight portion to be performed on the helicopter. Classroom activities

provide a thorough knowledge of the aircraft limitations, basic CRM, crew coordination, techniques for guiding Pilots over HHO sites, the duties and responsibilities in the HHO role, winching procedures and safety around the helicopter and Personal Protective (PPE) and hoist/rescue equipment specific to HHO.

Flight activities provide a thorough knowledge of standard voice marshalling (guidance over HHO sites), operation of hoist equipment, techniques for handling HHO passenger, basic winching operations (single and double lift), situation assessment, single and double lift stretcher procedures and hoist malfunctions and procedures.

Optional:

- Aircrew Helicopter Type Familiarization Course
- Technical Crew Member Front Seat Training

NIGHT VISION IMAGING SYSTEM (NVIS) TECHNICAL CREW MEMBER TRAINING

This course is designed for already qualified/experienced Technical Crew Member on helicopter and its aim is:

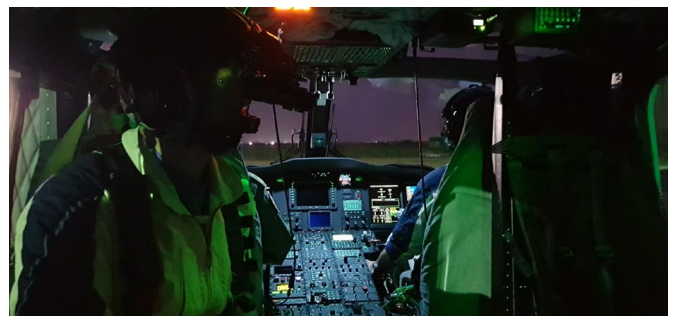
- To allow the attending operator to safely conduct night operations with the use of Night Vision Goggles (NVG)
- To allow the attending operator to understand the basic principles of operation of the Night Vision Goggles (NVG) and familiarize with the use of the device in flight

Entry Requirements

- Be at least 18 years old
- Hold a current medical flying category class 2
- Be already qualified and experienced as HEMS Technical Crew Member or HHO Technical Crew Member
- Possess an appropriate standard in written and spoken technical English

Programme

The course covers night time training and includes ground and FTD/FFS training followed by a flight portion to be performed on the helicopter.



HEMS HHO PASSENGER TRAINING

For HEMS operator involved in hoist operation it may be necessary for the HEMS medical passenger to perform basic rescue hoist operation in the HEC role.

The aim of the course is to provide to the students the theoretical knowledge and practical skills necessary to perform basic lift operations in a rescue environment.

Entry Requirements

- Be at least 18 years old
- Hold a current medical flying category or equivalent
- Have successfully completed the HEMS Medical Passenger course

- Have an appropriate level of physical fitness required for the role
- Possess an appropriate standard in written and spoken technical English

Programme

The course is designed for day time activity only and includes classroom, practical ground training and flight activities on customer's helicopter.

It covers the necessary aspects of Personal Protective (PPE) and rescue equipment, helicopter safety, the danger of static electricity and a thorough knowledge of winching procedure (including hoist malfunctions and emergencies), stretcher procedure, preparation and hazard mitigation.

RESCUEMAN TRAINING

The aim of the course is to provide to the students the theoretical knowledge and practical skills necessary to perform basic rescue operations in the HEC role and cover the necessary aspects of helicopter safety, emergency response, preparation, hazard mitigation and technical rescue.

Entry Requirements

- Be at least 18 years old
- Hold a current medical flying category
- Have an appropriate level of physical fitness required for the role
- Possess an appropriate standard in written and spoken technical English

Programme

This course is designed for day time activity only and includes classroom, practical ground training with mock-up, emergency room, climbing wall and a flight portion on customer's helicopter.

Classroom activities provide an overview of general theoretical knowledge on aviation (e.g. aviation terminology, theory of flight, helicopter familiarization) and aviation regulations. A thorough knowledge of CRM, crew cooperation and duties in the role, helicopter safety (including the danger of static electricity), Personal Protective Equipment (PPE), communication, HEMS specificities (on-board medical equipment, HEMS kit, practice of response to HEMS call, hospital casualty reception).

Simulator activities provide a thorough knowledge of harness and seating configuration, normal, abnormal and emergency procedures, stretcher loading-unloading, techniques for handling patients, location and use of the on-board fire extinguisher, simulation of HEMS scenarios and practical safety and rescue activities on the climbing wall (use of PPE and rescue equipment).

Flight activities provide a thorough knowledge of basic single and double lifts, stretcher operations and hoist malfunctions and emergency procedures.



GROUND EMERGENCY SERVICE PERSONNEL

The target of the course is to provide the necessary ground instruction required to qualify the students as Emergency Ground Service Personnel and enables them to carry out safety procedures for conducting required operations. The program of the training is designed according to EASA AIR OPS SPA.HEMS.135.

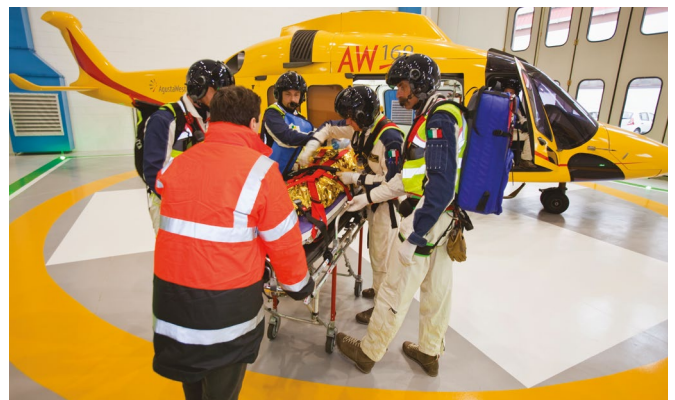
Entry Requirements

- Be at least 18 years old
- Be policemen, firemen, hospital security services employee, ambulance operators

Programme

The course consists of the following ground activities:

- A thorough knowledge of safety around the helicopter
- Two way radio communications procedures
- Stretcher loading unloading
- Crowd control
- Evacuation of helicopter occupant following an helicopter accident (including location of fuel tanks and oxygen shut-offs, emergency egress procedures, aircraft battery, emergency shut-down procedures)



Please contact our Training Account Manager to discuss contents, scheduling and pricing at the following web address: <http://www.leonardocompany.com/customer-support/elicotteri-helicopter/support/directory>



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