

Pilot Training

On the following pages you find detailed course descriptions.
All courses are available on request.

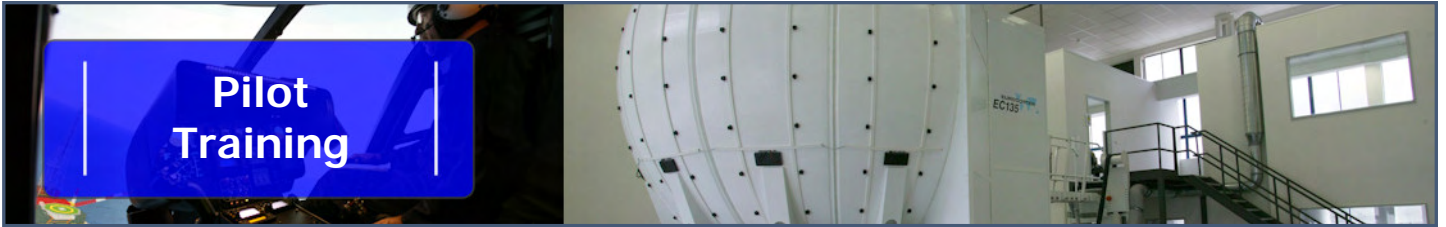
Course language is English. But fundamentally for all courses a real-time translation provided by an experienced team of interpreters can be offered, please don't hesitate to ask for details.

All students who have not employed an interpreter have to pass an initial English test at the beginning of the training course. This is to prove that they have a basic understanding of English to follow the course.

In case a student fails this test Eurocopter Training Academy will organise an interpreter who will be charged to the customer.

Note: JAR FCL 2 requires examination and assessment in the language of the pilot documentation!



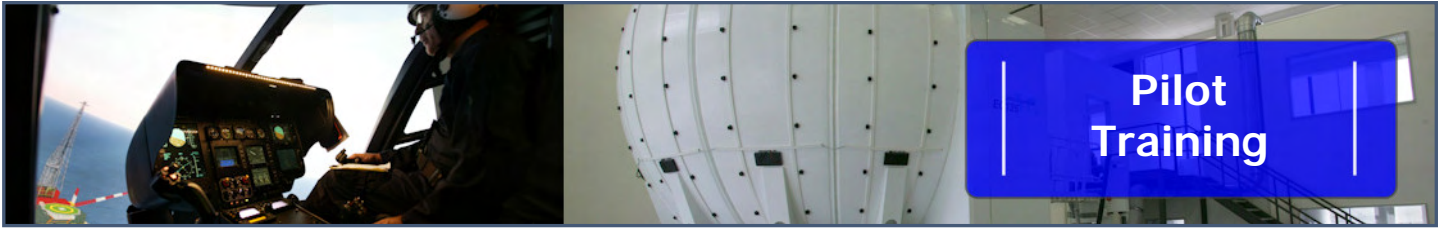


Pilot Training

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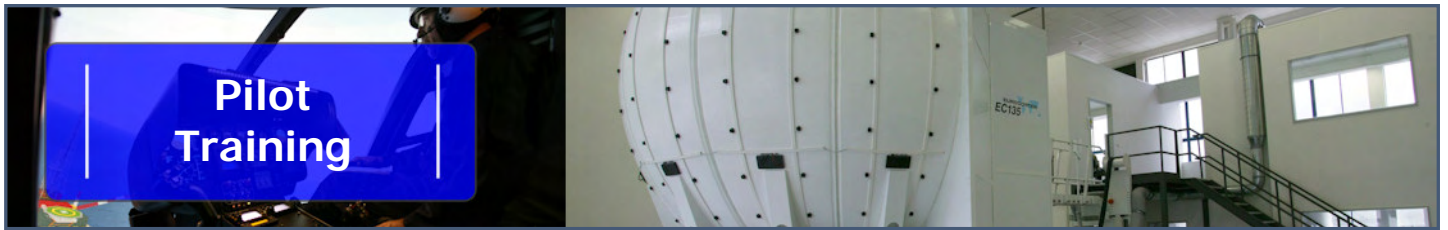
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Detailed Course Descriptions

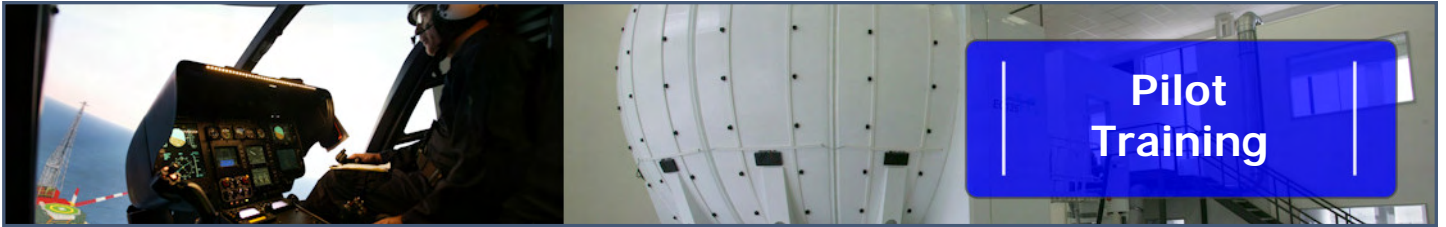




Type Rating Course VFR (TR) acc. to FCL-2

Helicopter Types	BO 105, BK 117, EC 145, EC 135				
Course length	<p>Theoretical instruction:</p> <table border="0" style="margin-left: 40px;"> <tr> <td>BO 105 / BK 117:</td> <td style="text-align: right;">5 days</td> </tr> <tr> <td>EC 135 / EC 145:</td> <td style="text-align: right;">8 days</td> </tr> </table> <p>Flight training (standard TR) BO 105 / BK 117 / EC 145 8:00 flh + 1 flh skill test on HC</p> <p>Flight training (MEH – extension to other types) 5:00 to 8:00 flh + 1 flh skill test</p>	BO 105 / BK 117:	5 days	EC 135 / EC 145:	8 days
BO 105 / BK 117:	5 days				
EC 135 / EC 145:	8 days				
Note	<p>The required minimum instruction time for Type Rating Training is based on the flight experience of the pilots to be trained.</p> <p>However, the total number of flight hours may increase based on the flight instructor's judgement. The primary consideration is the safe handling of the helicopter.</p> <p>The duration of the flight training may also vary due to weather conditions and number of Course participants.</p>				
Description	This course provides helicopter pilots with knowledge and skills on the relevant helicopter. It enables and certifies them to fly the related type of H/C safely and efficiently in accordance with JAR FCL-2 regulations.				
Prerequisites	Pilots to be trained must be graduated helicopter pilots holding a valid helicopter pilot licence.				
Syllabus					
Classroom training (Ground instructions)	<ul style="list-style-type: none"> • Training Manual (4 days incl. exam.) • Flight Manual (1 day) • Optional Equipment (3 days) 				
Pre flight briefings (Ground instructions)	<ul style="list-style-type: none"> • General familiarisation with the training helicopter • Helicopter checks according check list • Normal / Emergency / malfunction procedures 				





Flight Instruction

- Normal Procedures
- Emergency procedures
- Flight with max. gross mass
- Repetition
- Installed Optional Equipment

Note

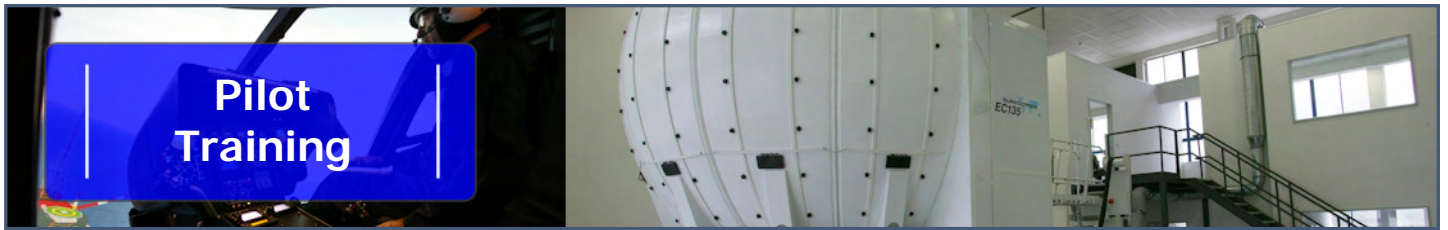
Eurocopter's new EC 135 Simulator can be part of the EC 135 type rating.

Training Academy offers special courses for type rating IFR, VFR night, CAT.A and hoist operation as these are not part of the type rating course VFR.

The Pilot has to check with his local CAA which type of "Application and Report Form" has to be fitted.

More Information

A detailed syllabus is available on request.



Ground Run & Functional Check Flight

Helicopter Types

BO 105, BK 117, EC 145, EC 135

Course length

approximately 3 days, consisting of:

Theoretical instruction:

1- day

Ground runs & Flight training:

2 - 3 flight hours

Description

This course provides experienced helicopter pilots with knowledge and skills to carry out ground run & functional check flights on the related type of H/C.

Prerequisites

Pilots to be trained must have a valid rating for the relevant helicopter type. Pilots should also have sufficient flight experience on the relevant type of helicopter. We recommend a minimum of 50 flight hours PIC.

Syllabus

Classroom training (Ground instructions)

- Review of helicopter systems
- ECD maintenance flight procedures in accordance with the maintenance manual
- Data evaluation with diagrams
- Co-ordination with technical personnel

Flight training

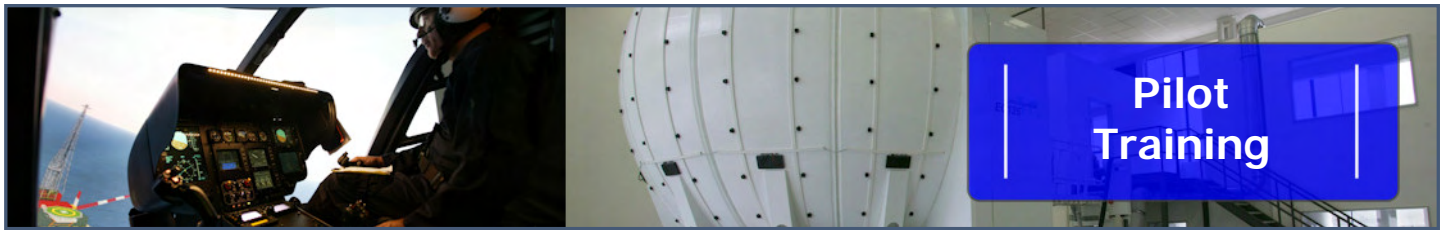
- Ground run/hover checks
- Helicopter systems - check
- Stick/pedal forces
- Tail rotor adjustment
- In-flight functional check
- Power check
- Engine governing
- V_{NE}
- Autorotation
- Evaluation of data
- Emergency procedures

Note

The instruction does **not** include tracking and dynamic balancing.

More Information

A detailed syllabus is available on request.



Refresher Course (RCP)

Helicopter Types

BO 105, BK 117, EC 145, EC 135

Course length

3 / 5 days, depending on requested training focus:

Theoretical instruction:

1-2 days

Flight training:

3 flight hours

Description

This course will renewal pilots system knowledge and skills with emergency flights procedures on the related type of H/C.

Remarks:

The amount of flight hours and the duration of the theoretical instruction are variable. They depend on requested theoretical system refresher and flight experience of the pilot to be trained. For type renewal please check requirements with your competent aviation authority before commencing the course.

Prerequisites:

Pilots to be trained must be graduated helicopter pilots and hold (or have hold) a valid BO 105 / BK 117 / EC 145 / EC 135 pilot licence.

Syllabus

Classroom training (Ground instructions)

- Relevant parts of the Training Manual
- Relevant parts of the Flight Manual

Flight training

- Pre flight and cockpit procedures
- Hover manoeuvres
- Traffic patterns
- Steep turns
- Slope landings
- Confined area flying
- Engine failure procedures
- One engine inoperative (OEI) landings
- Autorotation
- Tail rotor control failure
- Air restart
- Other emergency procedures

More Information

A detailed syllabus is available on request.



Type Rating Instructor TRI (H)

Helicopter Types

BO 105, BK 117, EC 145, EC 135

Course length

Approximately 5-8 days, consisting of:

Theoretical instruction:	3 days
Flight training VFR:	5 (or 3) flight hours (3 Fh) type extension only!
Flight training IFR:	2 flight hours
TRI assessment (check):	1 flight hour

Note

The training and total number of flight hours depend on complexity of the training helicopter. They may increase based on the flight instructor's judgement. The primary consideration is the safe handling of the helicopter.

The duration of the flight training may also vary due to weather conditions and number of Course participants.

Description

This course provides experienced helicopter pilots with knowledge and skills to give type rating training. It enables and certifies them to act as an instructor pilot on the related type of H/C based on JAR FCL-2 regulations.

Prerequisites TRI(H) first issue

The applicant has a total flight time on helicopters of not less than 500 hours PIC and holds a current type rating on the respective training helicopter with a minimum of 15 flight hours as PIC.

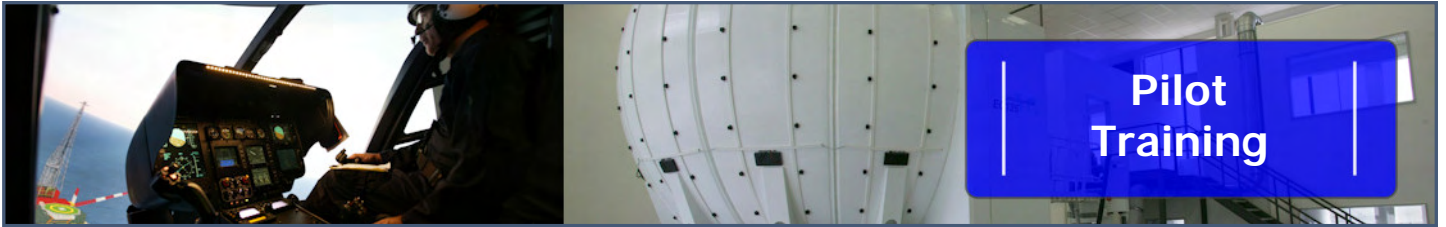
He also needs adequate experience on the training helicopter variant.

The applicant needs a certificate of successfully completion of the Teaching and Learning course according to appendix 1 to JAR-FCL 2.330 (C) or an equivalent course to be validated.

Prerequisites TRI(H) Extension

The applicant holds a current FI or TRI licence on other ME-SPH and a type rating on the respective helicopter with a minimum of 15 flight hours as PIC. He also needs adequate experience on the training helicopter variant.





Syllabus

Classroom training (Ground instructions)

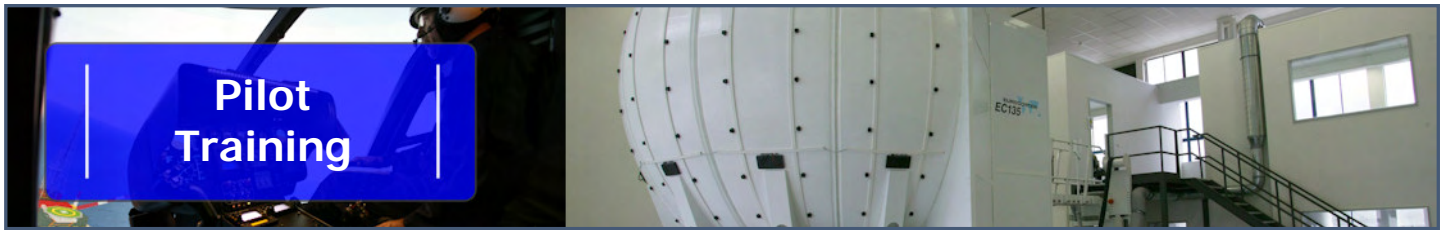
- Review of systems, limitations, procedures
- General familiarisation with the training helicopter
- General pre flight briefing and techniques

Flight training

- Repetition of normal and emergency procedures
- Left hand seat skills as student and instructor
- Standardisation of instrument flight procedures(IFR) if applicable
- Assessment of competence (check) at the end of the course

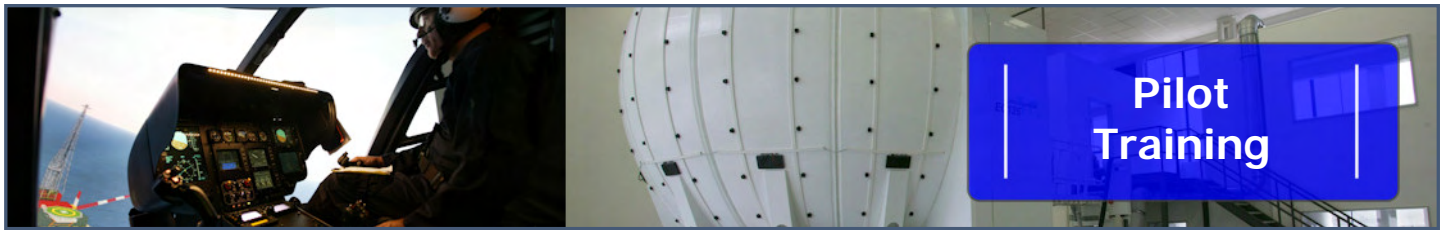
More Information

A detailed syllabus is available on request.



CAT. A Training (CAT. A)

Helicopter Types	BO 105, BK 117, EC 145, EC 135
Course length	Approximately 2 days, consisting of: Theoretical instruction: 1 day Flight training: 2 flight hours
Description	This course is designed to understand and professionally use CAT. A procedures and to renew pilots knowledge and skills with the associated emergency procedures on the related type of H/C.
Remarks	The amount of flight hours is variable and depends on the experience of the pilot to be trained.
Prerequisites	Pilot to be trained must have a valid rating for the relevant helicopter type. Flight experience on the relevant helicopter should be at least 10 flight hours. This training can also be implemented in a standard type rating course.
Syllabus	
Classroom training (Ground instructions)	<ul style="list-style-type: none"> • Introduction • About CAT. A • Exempts • Clear heliport operation • VTOL operations • Calculations
Flight training	<ul style="list-style-type: none"> • Clear heliport operation • VTOL
More Information	A detailed syllabus is available on request.



Type Rating IR (IFR)

Helicopter Types

BO 105, BK 117, EC 145, EC 135

Course length

Approximately 4 days, consisting of:

Theoretical instruction:

1 day

Flight training

3 - 5 flight hours

Remarks

The amount of theoretical instruction as well as the amount of flight hours is dependent on the experience and knowledge of the pilot to be trained.

Description

This course provides IFR licensed helicopter pilots with knowledge and skills, enabling and certifying them to fly the relevant H/C under Instrument Meteorological Conditions (IMC) in accordance JAR FCL-2 regulations

Prerequisites

Pilots to be trained must have a valid instrument rating on helicopter (IR (H)), a valid type rating and experience on the relevant helicopter type. Pilots holding a JAR FCL license must be able to perform the radio communication in English language.

Syllabus

Classroom training (Ground instructions)

- Instruction of all IFR content of the flight manual
- Instruction of all IFR handling of the avionics
- Explanation / Harmonisation of the flight procedures
- Explanation of the ECD - IFR Checklist

Flight training

- Basic procedures
- Enroute
- Approaches
- IFR - Emergencies

More Information

A detailed syllabus is available on request.

Instrument Rating (IR (H))

Helicopter Types

BO 105, BK 117, EC 145, EC 135

Course length

Approximately 3 - 4 months, consisting of:

150 hours of theoretical instruction

total of 55 flight hours (on helicopter/simulator (FNPT III))

Remarks

Amount of hours for theoretical instruction, flight hours and hours on the procedure trainer represent a minimum required by German Aviation Authorities (LBA).

For foreign course participants these minima can be altered to their specific demands.

Prerequisites

Pilots to be trained must hold a valid helicopter pilot licence including night flight qualification. He must hold a valid type rating for the relevant helicopter type.

The participant must have a flight experience of at least 50 flight hours in cross country flights as PIC (on helicopters or aeroplanes), of which a minimum of 10 flight hours have to be on helicopters.

The participant must be proficient in English and show his ability to understand and communicate for all course related matters in this language.

Syllabus

Classroom training (Ground instructions)

- Law of the air and Air traffic control procedures
- General aircraft and IFR-systems knowledge
- Flight planning
- Physiology and Human performance
- Meteorology
- Navigation and Radio navigation
- Communication procedures
- IFR procedures
- Written examination





Flight training
Basic phase

- Cockpit procedures
- Straight and level flight
- Standard turns / steep turns
- Climb and descent
- Climbing / descending turns
- Acceleration / deceleration
- Instrument take-off
- Instrument failure
- Unusual attitudes

Advanced phase

- Homing
- Tracking
- Interceptions
- Holding entry / holding pattern
- Procedure turns
- Non-precision approaches
- Precision approaches
- Emergency procedures related to IFR

Cross country phase

- Flight planning
- Cockpit management
- Departure- and arrival routes
- Radio navigation
- Radio communication (voice procedures)
- Crew coordination

Examination

- Skill test on relevant helicopter.

Note

All flights will be performed under simulated or actual Instrument Meteorological Conditions (IMC) during day- and night time.

Special Training Courses

Helicopter Types

BO 105, BK 117, EC 145, EC 135

Basic - External hoist procedures (EHP)

Duration: approx. 3 days
Theoretical instruction: 1 day
Flight training: approx. 2 days

Note: Training only together with winch operator training at the same time. They should bring appropriate working clothes (incl. shoes, helmet and gloves) with them.
Hoist operation in mountainous area and/or over water only if possible by local CAA and on special request

Basic - Load hook procedures (LHP)

Duration: approx. 1 day
(including all technical preparation)
Theoretical instruction: 2-3 hours
Flight training: approx. 1 flight hour

High landing skid (HLS)

Duration: approx. ½ day
Theoretical instruction: 1 hour
Flight training: approx. 1 flight hour

Basic - Night flight procedures (NFP)

Duration: approx. 1 day
(including all necessary preparation)
Theoretical instruction: 1-2 hours
Flight training: approx. 1 flight hour
(only within traffic pattern)

Note: only from October to March

Helicopter differences training (DIF)

Duration: approx. 3-5 days
Theoretical instruction: 1-4 days*
Flight training: approx. 1-4 flight hours*

*depending on helicopter (cockpit) variant

Note: only for EC 135 and EC 145

More Information

Detailed syllabi are available on request.



GPS Training

GPS Stand alone approach Course
 for
CMA 3000/9000
Garmin 430/530 series
Trimble/Free Flight 2000 series

Course length

1 day theory
 approx. 2-3 flight hours

Prerequisites

Valid IFR licence (H) and valid Type Rating on helicopter type.

Description

This course provides IFR licensed helicopter pilots with knowledge and skills, enabling them to use the GPS in a professional way and to enable them to conduct GPS stand alone approaches.

Syllabus

Classroom training
 (Ground instructions)

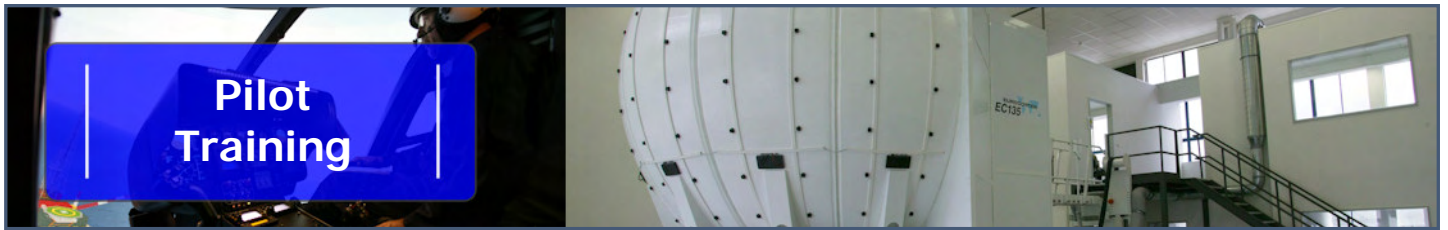
- Principle function of GPS
- Official prerequisites and accuracy
- Data system / coordinate system
- Charts symbols and turn anticipation
- RAIM prediction
- Automatic scale ranging
- GPS procedures as example
- Useful additional information
- Use of equipment inclusive simulation program
- Flight planning

Flight training

- Minimum 2 approaches plus 1 complete missed approach at an airfield with a certified GPS approach procedure

More Information

Detailed syllabi are available on request.



NVG Training

Duration

Approx. 3 weeks basic training, consisting of:

Theory:	1 week
Flight training	15 flight hours of night flight training within the four different moon phases

Objectives

Basic training for a crew under NVG conditions.
Crew coordination in tactical missions additional using FLIR

Prerequisites

Pilots to be trained must have a valid CPL(H) Commercial Pilot Licence (Helicopter) and a type rating on the relevant Helicopter.
It is an advantage to hold also a valid IFR type rating.

Schedule

Classroom training
(Ground instructions)

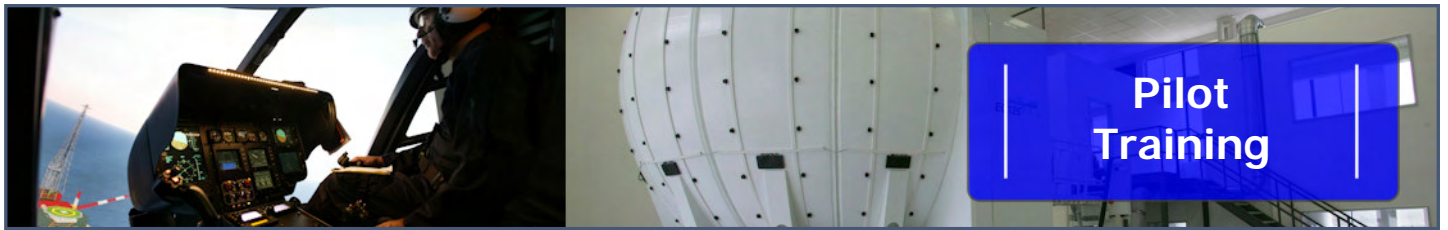
- Lesson about techniques and instruments
Introduction on ground
- Extensive briefing before and after each flight instruction
- Tactical employment and crew co ordination
- Equipment of the helicopter for flight with NVG
- Emergency procedures
- Map preparation, moving map
- NVG basic training should cover different moon phases (different light intensity)

Flight training

- 15 Fh of basic flight procedures (with flight instructor)
- NVG cross country flight with 15 landings
(1 flight hour as Co Pilot)
 - NVG – FLIR operation training
(crew coordination, flight procedures)
1 exercise of that will be;
“co operation with a team on ground”
 - Off site landings on different places

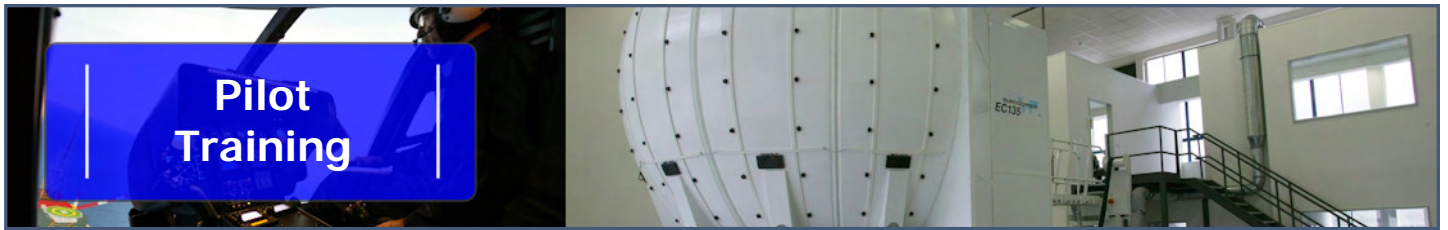
More Information

A detailed syllabus is available on request.



FLIR - Operator Training Level 1 "Basic"

Duration	5 days of theoretical and practical instruction including: 2 hours day flight and 1 hours night flight for each operator
Objectives	Basic training of a crew on the FLIR system. The training course will be terminated by a written examination in theoretical and practical knowledge.
Prerequisites	Onboard engineer must have a valid licence for flight engineer. Hc must be available during ground training.
Schedule Classroom training (Ground instructions)	<ul style="list-style-type: none"> • General • Flight Manual EC 135 • Components FLIR-System • Operating Manuals Moving Map System • Physical Basics/IR-Technology • Crew-Co-Ordination (basics referring to legal requirements) • Human Performance and Limitations
Practical instruction	Ground Training (P) <ul style="list-style-type: none"> • Ground-Training Installation, handling, pre-flight-check
Flight training	Flight Training Basics (P) <ul style="list-style-type: none"> • Flight-Proceedings • Environment • Objects
Note	Course duration is for 1 – 2 operators for any additional operator to be trained course days will be added
More Information	Detailed syllabus is available on request.



FLIR - Operator Training Level 2 Advanced "Flight Mission Training"

Duration	7 days of theoretical and practical instruction including: 3 hours day flight and 3 hours night flight for each operator
Prerequisites	Onboard engineer must have attended the FLIR Operator Training "Level 1 – Basic". Hc must be available during ground training.
Schedule Classroom training (Ground instructions)	<p>Refreshing – Improving (T)</p> <ul style="list-style-type: none"> • Flight Manual EC 135 Manual FLIR-System – EO-/IR System • Experience "Feedback" <p>Crew-Co-ordination (T)</p> <ul style="list-style-type: none"> • Crew Co-ordination Concept (CCC) • Crew Resource Management (CRM)
Practical instruction	Ground Training (P) <ul style="list-style-type: none"> • Reflecting
Flight training	Flight Mission Training (P) (tailored to customer's demands)
Note	For the higher course level participation in the previous course is mandatory!
More Information	Detailed syllabus is available on request.



FLIR - Operator Training Level 3 "Operational Training Hot Missions"

Duration 9 days of theoretical and practical instruction including:
4 hours day flight and
5 hours night flight for each operator

Prerequisites Onboard engineer must have attended the FLIR Operator Training "Level 2 – Advanced Flight Mission Training".
Hc must be available during ground training.

Schedule
Classroom training
(Ground instructions)

Refreshing – Improving (T)

- Experience "Feedback"

Crew-Co-ordination (T)

- Crew Co-ordination Concept (CCC) "Intensive"
- Crew Resource Management (CRM) "Advanced-Training"

Cooperation with Ground Forces (T)

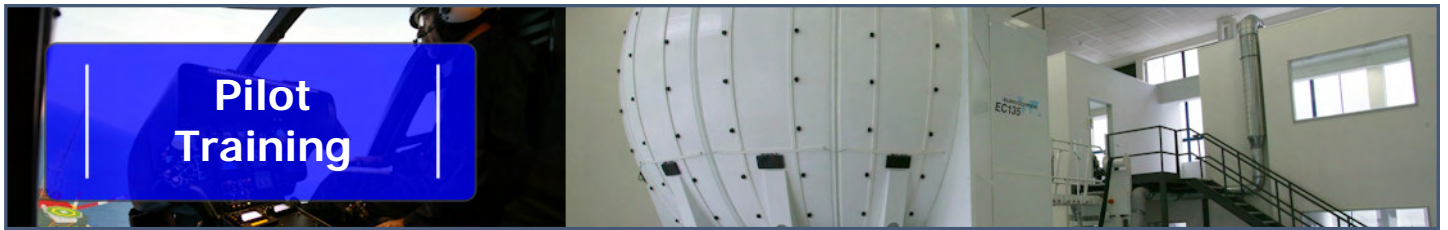
- Common Rules
- Standard Call outs
- Guiding Ground Forces
- Optionals
- Tactical Opportunities

Flight training

Hot Mission Training (P)
(tailored to customer's demands)

Note For the higher course level participation in the previous course is mandatory!

More Information Detailed syllabus is available on request.



IFR Transition (IFT) (Aeroplane to Helicopter)

Helicopter Types

BO 105, BK 117, EC 145, EC 135

Course Length

The amount of theoretical instruction as well as the amount of flight hours depends on the knowledge and experience of the pilot to be trained.

Flight training 10 flight hours as minimum
 + 1,5 Fh skill test

Prerequisites

Pilots to be trained must have a valid IFR rating on fixed wing and a valid rating of the relevant helicopter type.

Syllabus

Classroom training
(Ground instructions)

- Instruction of all IFR content of the flight manual
- Instruction of all IFR handling of the avionics
- Explanation / Harmonisation of the flight procedures
- Explanation of the ECD - IFR Checklist
- Cockpit management

Flight Training

- Basic manoeuvres
- Enroute navigation
- Holdings
- Cockpit management
- Emergency procedures
- Precision approaches
- Non-precision approaches

More Information

Detailed syllabi are available on request.



Synthetic Flight Instructor (SFI) Training SIM EC 135

- Course duration**
- 1 Instructor ~ 3 days of theoretical and practical instructions
 - 2 Instructors ~ 4 days of theoretical and practical instructions

Course objective On completion of this course, the applicant is theoretically and practically instructed how to operate the EC 135 simulator.

- Applicable JAR regulations**
- JAR-FCL 2.305 (d)
 - JAR-FCL 2.405
 - JAR-FCL 2.410
 - JAR-FCL 2.415

Prerequisites The applicant holds a valid CPL(H) with TR as PIC for EC 135 (or had such a qualification during the preceding 2 years) and is / was a qualified type rating instructor (**TRI**) on EC 135 helicopters during the preceding 12 month.

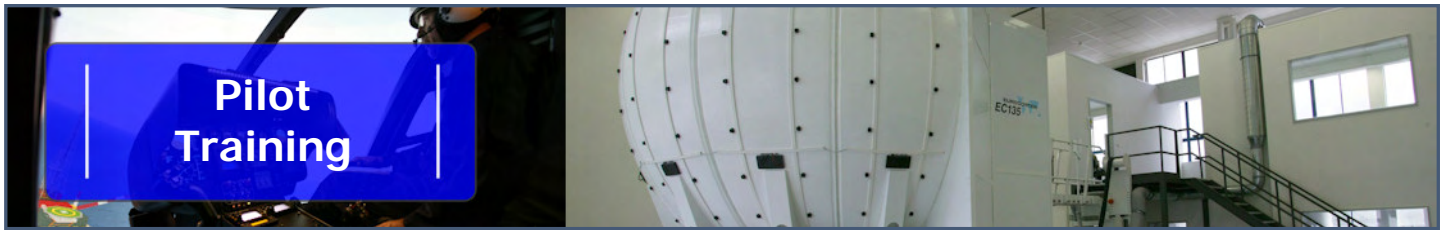
Training requirements Simulator familiarisation including operation of the Instructor Operating Station (IOS) as well as review of EC 135 emergency procedures according FLM

Theoretical Instruction 2 days SIM familiarisation theoretical refresher of FLM emergencies

- Review of procedures
- Instructor familiarization with the Simulator

- Simulator operator training**
- Minimum 2 slots per instructor
 - Operator instruction as SFI
 - General pre-flight / post-flight briefing
 - Normal and emergency procedures

More Information Detailed syllabi are available on request.



Pilot Training

Emergency Refresher Training (ERT) SIM EC 135

Course duration	4 days of theoretical and practical instructions for 2 Pilots
Course objective	On completion of this course, the applicant is theoretically and practically standardized / refreshed for helicopter system knowledge as well as for normal- and emergency flight procedures on the EC 135.
Applicable JAR regulations	For further information, please contact Training Academy
Prerequisites	The applicant is a qualified Helicopter Pilot (PIC) and holds a current type rating on the EC 135.
Training requirements	Review of all helicopter systems and emergency procedures
Theoretical Instruction	2 days theoretical refresher
Flight training	4:00 slots per pilot Flight instruction SIM – EC 135 <ul style="list-style-type: none"> • Flight times given in this section are block times (4 flights each 1:00 hrs) • General pre-flight / post-flight briefing • Normal and emergency procedures
More Information	Detailed syllabi are available on request.