

Mechanics Type Rating

Objective

Mechanics working on the Nh90 need extensive theoretical and practical skills to maintain airframe, mechanical systems, rotors, transmissions and power plants.

PART 147 requirements will be the basis of the training course syllabus supplemented by military subjects where applicable.

Prerequisites

Applicants for a type rating shall:

- Be qualified as a mechanic technician (hold a diploma equivalent to B1-3 licence)
- Have gathered at least 3 years of experience in maintenance of helicopter airframe mechanical systems and engine (0 and 1 level) over the past 5 years
- Have good knowledge of helicopter airframe mechanical systems and engine
- Be familiar with the use of helicopter technical documentation
- Have completed the Familiarization Course
- Have the capacity to read, write and express themselves in English with a comprehensive level on technical documentation

Course Content

The theoretical content is as follows:

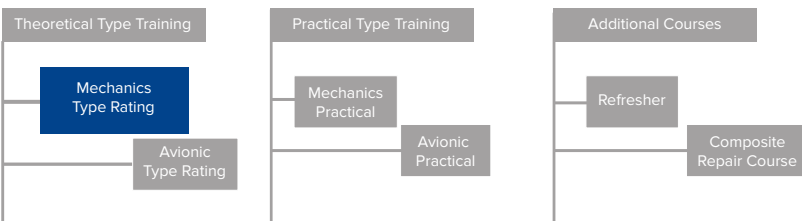
- Main rotor / Main rotor controls / Main rotor drive system
- Power plant
- Tail rotor drive systems / Tail rotor
- Fuel system
- Flight controls and electrical systems
- Ground handling and servicing
- Airframe
- Hydraulic systems

Final Examination

The examinations for the Type Rating will be performed on the basis of the training syllabus at the end of the course or section. The participant will be required to prove safe operation of the dedicated helicopter. Success criterion is a pass rate of not less than 75%.

Certificate

Upon successful pass of the examination the participant will be awarded a pass certificate. All other participants will be awarded an attendance certificate.



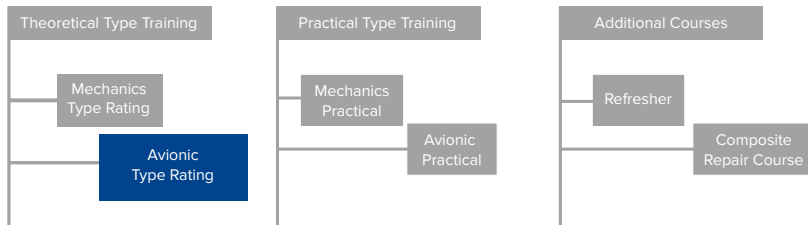
Mechanics Type Rating

Theory Courses Level 3 (Base Maintenance)

Course	Content	Duration
NATO Helicopter 90	Introduction	2 days
Airframe / Engine	Airframe	16 days
(Cat B1 Theory)	Engine	9 days
	Avionic LRU's	4 days
	Electrical / Instrument System	3 days
	Final Examination	1 days
	in total:	35 days

Course	Content	Duration
NATO Helicopter 90	Introduction	2 days
Airframe	Airframe	16 days
(Cat B1 Theory)	Engine Introduction	4 days
	Avionic LRU's	4 days
	Electrical / Instrument System	3 days
	Final Examination	1 days
	in total:	30 days

Course	Content	Duration
NATO Helicopter 90	Introduction	2 days
Engine	Airframe Introduction	4 days
(Cat B1 Theory)	Engine	9 days
	Avionic LRU's	4 days
	Electrical / Instrument System	3 days
	Final Examination	1 days
	in total:	23 days



Avionic Type Rating

Objective

Avionics personnel working on the NH90 need extensive theoretical and practical skills to maintain avionic, mission, automatic pilot and electrical systems.

PART 66 requirements will be the basis of the training course syllabus supplemented by military subjects where applicable.

Prerequisites

Applicants for a type rating shall:

- Be qualified as an Avionic technician (hold a diploma equivalent to the B2 licence)
- Have gathered at least 3 years of experience in maintenance of aircraft avionic and electrical systems (O and I level) over the last 5 years
- Have basic knowledge of systems based on digital technology
- Have good knowledge of helicopter electrical and avionics systems and of instruments
- Have completed the Familiarization course
- Be familiar with the use of aircraft technical documentation
- Have the capacity to read, write and express themselves in English with a comprehensive level on technical documentation

Course Content

The theoretical content is as follows:

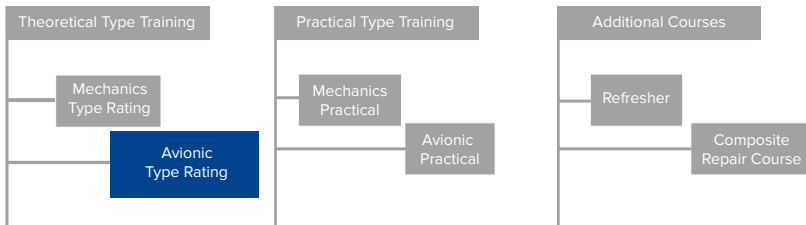
- Piloting, navigation, communication and identification system
- Electrical generation and lighting systems
- Flight control system
- Electronic Flight Instrument System
- Tactical mission system

Final Examination

The examinations for the Type Rating will be performed on the basis of the training syllabus at the end of the course or section. The candidate will be required to prove safe operation of the dedicated helicopter. Success criterion is a pass rate of not less than 75%.

Certificate

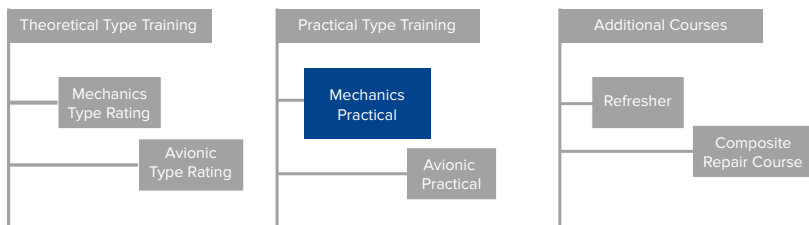
Upon successful pass of the examination the participant will be awarded a pass certificate. All other participants will be awarded an attendance certificate.



Avionic Type Rating

Theory Courses Level 3 (Base Maintenance)

Course	Content	Duration
NATO Helicopter 90	Introduction	2 days
Avionics	Avionics	13 days
(Cat B2 Theory)	Electronics	8 days
	Airframe / Engine	5 days
	Electrical / Instrument System	3 days
	Final Examination	1 days
	in total:	32 days



Mechanics Practical

Objective

The practical training extends to components and assemblies as well as maintenance diagnostic systems and mechanics test procedures. The objective of this course is to provide the trainee with practical skills required to ensure safe performance of maintenance, inspections and routine work on the NH90 systems according to the maintenance manual.

Course content

Practical elements consist of a comprehensive coverage of operations, maintenance procedures, troubleshooting, removal/installation of components as described at maintenance manual level.

Examination

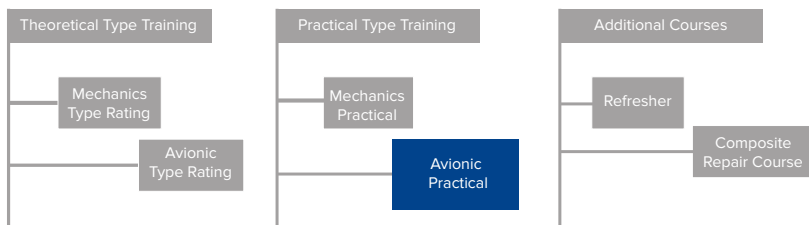
The examination is a practical assessment of work performed according to the log book.

Certificate

Upon successful pass of the examination the participant will be awarded a pass certificate. All other participants will be awarded an attendance certificate.

Practical Courses Level 3 (Base Maintenance)

Course	Content	Duration
Airframe / Engine (Cat B1 Practical)		20 days
Airframe / Systems (Cat B1 Practical)		15 days
Engine (Cat B1 Practical)		10 days
On-helicopter practical		8 days



Avionic Practical

Objective

The practical training extends to components and assemblies as well as maintenance diagnostic systems and avionics test procedures. The objective of this course is to provide the participant with practical skills required to ensure safe performance of maintenance, inspections and routine work on the NH90 systems according to the maintenance manual.

Course content

Practical elements consist of a comprehensive coverage of operations, maintenance procedures, troubleshooting, removal/installation of components as described at maintenance manual level.

Examination

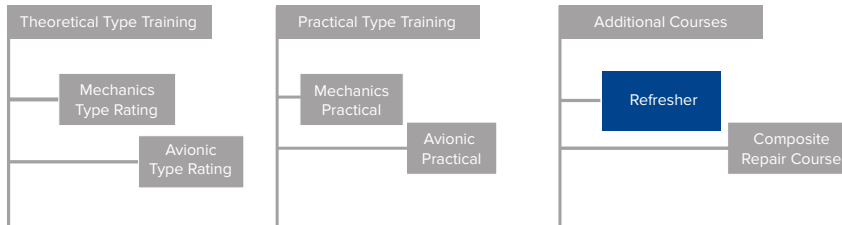
The examination will take place by working through the tasks of practical the log-book and the practical assessment.

Certificate

Upon successful pass of the examination the participant will be awarded a success certificate. All other participants will be awarded an attendance certificate.

Theory Courses Level 3 (Base Maintenance)

Course	Content	Duration
Avionics / Electrical (Cat B2 Practical)		15 days
On-helicopter practical		5 days



Refresher

Objective

This refresher course is designed to update the procedures and skill related to the maintenance of NH 90.

Prerequisites

The participant is required to be type rated and needs to have practical experience

Course content

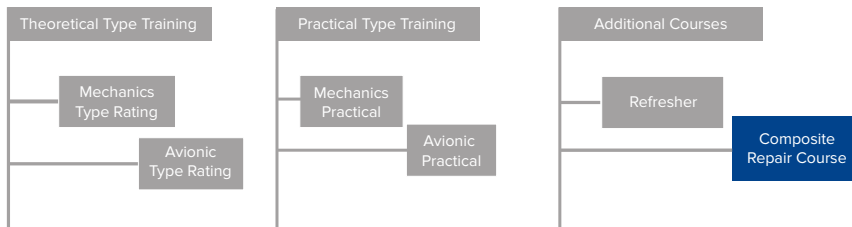
This course repeats the content of the relevant theoretical type rating course.

Certificate

Upon successful pass of the examination the participant will be awarded a pass certificate.

Course Duration

5 Days



Composite Repair course

Objective

This course is an addition to the skilled worker out tasks with composite material.

Certificate

Upon successful pass of the examination the participant will be awarded a pass certificate.

Prerequisites

The participant needs to be qualified as maintenance technician and is required to have knowledge of the mechanical/airframe structure. Moreover, practical experience on the dedicated aircraft is expected.

Course Duration

5 days

Course content

- Theoretical material science
- Practical handling of composite material
- Repair and test procedures
- Standard repair practice
- Various damage identification and estimation before repairing
- Material management (glue, tools, equipment)
- Labour safety and environmental protection