



# HELICOPTER SIMULATION CENTRE CESIFAMET

## MAINTENANCE COURSES

División de Simulación



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The courses are focused on providing students the knowledge about the helicopter design, maintenance, troubleshooting and technician functions in flight.

Our courses are based on three pillars

- The wide academic knowledge of our teachers, with an extensive experience of over 20 years, gained in Spanish Army, in helicopter maintenance and training courses.
- A multimedia teaching system, photographs, videos, 2D and 3D animations that provides a description of the aircraft systems and their normal operation and troubleshooting.
- Flight simulators, where you can make complementary practices in addition to the theoretical course training such as: before starting the engines checks, starting the engines, after starting engines checks and emergency procedures.

Offered training programme:

**AS 332/532 SUPERPUMA/COUGAR**  
FAMILIRIZATION TRAINING COURSE  
BASIC TECHNICIAN COURSE  
ADVANCED MAINTENANCE TECHNICIAN COURSE  
AVIONICS AND ELECTRICITY COURSE  
MAINTENANCE REFRESH COURSE WITH ON GROUND FLYING TRAINER PRACTICES

**CHINOOK CH-47D**  
FAMILIRIZATION TRAINING COURSE  
BASIC TECHNICIAN COURSE  
ADVANCED MAINTENANCE TECHNICIAN COURSE  
AVIONICS AND ELECTRICITY COURSE  
MAINTENANCE REFRESH COURSE WITH ON GROUND FLYING TRAINER

#### 1.- **AS 332/532 SUPERPUMA/COUGAR: FAMILIRIZATION COURSE**

##### **OBJECTIVES:**

Provide students a basic overview of the helicopter systems, power plant, and an introduction to aircraft manuals and aircraft maintenance program.

##### **REQUIREMENTS:**

Trainee must be familiar with hydraulic systems, fluid mechanics and electricity.

##### **COURSE CONTENT:**

General Description	Power Plant
Hydraulic Power	Maintenance Program and Aircraft Maintenance Manual
Landing Gear	Familiarization flight simulator
Electrical system	

**2.- AS 332/532 SUPERPUMA/COUGAR: BASIC TECHNICIAN COURSE****OBJECTIVES:**

Provide students with the necessary Knowledge about the aircraft documentation, systems and power plants descriptions, location and operation to perform maintenance basic procedures.

**REQUIREMENTS:**

Trainee must have basic knowledge of aircraft systems and should have at least 6 months experience in aircraft maintenance.

**COURSE CONTENT:**

General Description	Fuel System
Structure	Protection Against Fire
Rotors System	Automatic Pilot System
Transmissions System	Engine Installations
Hydraulic Power	Power Plant
Landing Gear	Maintenance Program and Aircraft Maintenance Manual
Electrical system	Simulator Flight instruction
Flight Controls	

**3.- AS 332/532 SUPERPUMA/COUGAR: ADVANCED TECHNICIAN MAINTENANCE COURSE****OBJECTIVES:**

Provide students a detailed knowledge about the aircraft documentation, systems and power plant description, location and operation to perform maintenance procedures and solve system malfunctions.

**REQUIREMENTS:**

Trainee must have basic knowledge of aircraft systems and should have at least 6 months experience in aircraft maintenance.

**COURSE CONTENT:**

General Description	Ice and Rain Protection
Structure	Protection Against Fire
Rotors System	Automatic Pilot System
Transmissions System	Engine Installations
Hydraulic Power	Power Plant
Landing Gear	Lighting
Electrical system	Radio communication and navigation systems
Flight Controls	Maintenance Program and Aircraft Maintenance Manual
Servocontrols	Simulator Flight instruction
Fuel System	

**4.- AS 332/532 SUPERPUMA/COUGAR: AVIONIC AND ELECTRICITY****OBJECTIVES:**

Provide students a detailed description of: aircraft technical documentation, electrical system component location and operation and avionic equipments, communication and navigation systems, to perform maintenance procedures and how to solve system malfunctions.

**REQUIREMENTS:**

Trainee must have electrical systems and avionic equipments general knowledge and should have at least 6 moths experience in aircraft avionics maintenance.

**COURSE CONTENT:**

Flight simulators Practices	Lighting
Electric Generating System	Heating
System Operation Indication	Protection Against Fire
Hydraulic System	Avionics Equipments
Pitot Static System	Maintenance Manual.

**5.- AS 332/532 SUPERPUMA/COUGAR: MAINTENANCE REFRESH COURSE WITH ON GROUND FLYING TRAINER PRACTICES****OBJECTIVES:**

Provide students a detailed or reinforced knowledge about helicopter systems and their functions as a crewmember.

**REQUIREMENTS:**

Have completed a training course on the helicopter and should have at least a year experience on type.

**COURSE CONTENT:**

Customers can choose different helicopter systems.

**6.- CHINOOK CH-47D: FAMILIARIZATION COURSE****OBJECTIVES:**

Provide students a detailed or reinforced knowledge about helicopter systems and their functions as a crewmember.

**REQUIREMENTS:**

Have completed a training course on the helicopter and should have at least a year experience on type.

**COURSE CONTENT:**

Customers can choose different helicopter systems.

**7.- CHINOOK CH-47D: BASIC TECHNICIAN MAINTENANCE COURSE****OBJECTIVES:**

Provide students the aircraft documentation knowledge, systems and power plant description, location and operation to perform maintenance basic procedures.

**REQUIREMENTS:**

Trainee must have basic knowledge of aircraft mechanical systems and should have at least 6 months experience in aircraft maintenance.

**COURSE CONTENT**

Flight simulators Practices	Hydraulic System
General Description.	APU
Structure	Flight Controls
Transmission System	PowerPlant
Rotors	AFCS
Electric Systems	Technical Manuals.

**8.- CHINOOK CH-47D: ADVANCED TECHNICIAN MAINTENANCE COURSE**

**OBJECTIVES:**

Provide students a detailed Knowledge about the aircraft documentation, systems and power plants descriptions, location and operation to perform maintenance procedures and solve malfunctions in the systems.

**REQUIREMENTS:**

Personnel must have basic knowledge of aircraft mechanical systems and should have at least 6 months experience in aircraft maintenance.

**COURSE CONTENT:**

Flight simulators Practices	Flight Controls
General Description.	Fuel System
Structure	Protection Against Fire
Transmission System	Power Plant
Rotors	Engine Installations
Electric Systems	AFCS
Hydraulic System	Avionics Equipments
APU	Technical Manuals.
Lighting	

**9.- CHINOOK CH-47D: AVIONICS AND ELECTRICITY**

**OBJECTIVES:**

Provide students detailed description of, aircraft technical documentation, electrical system component, location and operation and communication and navigation systems, to perform maintenance procedures and solve system malfunctions.

**REQUIREMENTS:**

Trainee must have general knowledge of electrical systems and avionic equipments and should have at least 6 months experience in aircraft avionics maintenance.

**COURSE CONTENT:**

Flight simulators Practices	Lighting
Electric Generating Systems	Heating
APU	Protection Against Fire
Hydraulic System	Avionics Equipments
Fuel System	Maintenance Manual.
Power Plant	

**10.- CHINOOK CH-47D: MAINTENANCE REFRESH COURSE WITH IN GROUND FLYING TRAINER****OBJECTIVES:**

Provide students a detailed or reinforced knowledge about helicopter systems and their functions as a crewmember

**REQUIREMENTS:**

Trainee will have completed a training course on the helicopter and should have at least a year experience on type.

**COURSE CONTENT:**

Customers can choose the different helicopter systems.