

Canada Wings

Aviation Training Centre

Quick Reference: Bell 412CF



Photo: Canadian Helicopters Ltd.

Advanced Helicopter Trainer (Phase III)

The Bell 412CF helicopter, used by the Air Force at Canada Wings Aviation Training Centre is the second training helicopter in a "two fleet" helicopter training course. The Bell 412 is a commercially successful utility helicopter used by many civilian organizations and militaries worldwide. The aircraft in the program are former Canadian Forces CH-146 Griffons that have been significantly upgraded and recertified to civilian standards. The resulting configuration, designated the 412CF, is eminently suited for teaching multi-engine, multi-crew and IFR skills. It will be an ideal lead-in for pilots destined to fly operational multi-engine helicopters.

Specifications: Bell 412CF

Manufacturer: Bell Helicopter Canada, Mirabel, Quebec
Certification: Transport Category B, approved March 10, 1995
Engine: Two (2) Pratt & Whitney Canada PT6T-3D

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Airspeed Limits (IAS): VNE 140 kts (260 km/h) IAS
Maximum Weight (mass): 5398 kg (11 900 lbs)
Minimum Crew: One pilot –
VFR and IFR
3-axis autopilot
Outside Air Temp limits: Maximum at Sea Level
is +51.7°C (+125°F)
Minimum at all altitudes
is -40°C (-40°F)
Fuel Capacities: Usable
Litres 1201
Imperial Gallons 264
U.S. Gallons 317
Pounds 2114
Maximum Occupants: 15 including crew
Maximum Operating Alt: 20 000 feet pressure
altitude
Hoist-capable
Sling-capable: 5 000 lb hook
NVG-capable



Photo: Canadian Helicopters Ltd.

Bell 412 cockpit layout

Modifications for Canada Wings training:

- o Full 4 display, colour EFIS
- o Universal UNS-1L Flight Management System (FMS)
- o Collins radio package including:
 - Dual Comms
 - Dual VOR/ILS
 - ADF
 - Mode S Transponder
- o Third crew member (observer) station
- o Air Conditioning
- o Single pointer digital altimeter
- o Exterior repainted with high visibility paint

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