

## ----- Training Course Syllabus -----

### **912 & 914 Heavy Maintenance Course**

Course fee includes copy of the current *Heavy Maintenance Manual*.

Due to the hands-on aspect and space limitations the maximum class size is 6 persons.

#### **Pre-Requisites:**

1. Completion of a recognized Rotax 912/914 Service course
2. Completion of a recognized Rotax 912/914 Maintenance course within the last 24 months
3. Minimum 1 year hands on experience maintaining Rotax 4 stroke Aircraft Engines.

#### **Intended Audience:**

Maintenance Personnel seeking in-depth Heavy Maintenance information on Rotax 912 and 914 Series Aircraft Engine.

#### **2 Day hands-on course covering the following according to the Heavy Maintenance Manual:**

- Detailed Maintenance issues and tips and tricks on the following Systems or Components:
  - Cylinder Heads
  - Cylinders and pistons
  - Gearbox
  - Ignition housing / Water pump / sprag clutch
  - Carburetors
- Hands-on tear down, inspection and re-assembly of the following components:
  - Gearbox / shimming / Friction & Slipping torque
  - Carburetors
  - Oil pump
  - Ignition housing / Water pump seal
  - Cylinders / pistons and cylinder heads
  - Valve train

#### **Examination:**

Open book Written and practical examinations. 75% passing grade as well as full attendance is required for iRMT candidates. Non iRMT participants will receive Certificate of attendance

#### **Preparation:**

- Participants should be prepared for hands-on work on in-service engines and the use of diagnostic and precision tools.
- All participants must perform the tasks; observers are not permitted.
- Some work such as test run of the engine is performed outside so appropriate clothing for the season is required.
- Discussion and constructive debate is encouraged and expected of the participants.

#### **Conclusion:**

At the end of this 2 day hands on Heavy Maintenance course, the learner will have gained hands-on experience in heavy maintenance aspects such as gearbox removal and repair and water pump seal replacement.

- Certificate awarded for successful completion.
- 16 hours of initial, recurrent or update training