



## On Condition Maintenance Course 22/02/2020

**Application:** email [maintenance@experimental.ch](mailto:maintenance@experimental.ch) with your name, cell phone number and aircraft tail number. Deadline February 19th 2020. At the same time please mention any extra maintenance items requested, we will try to accommodate.

**Participants:** minimum of 4 required to run the course, maximum 10

**Costs:** CHF150.-/trainee either cash, Paypal or bank transfer

**Bring along:** Own lunch. Maintenance authorization applicants, Practical Experience Logbook for (filling/signing)

**Language:** the main language of the course will be Swiss-German. However German, French and English can also be used according the requirements of the trainees and the contents of each module

**Location:** EAS heated Workshop, Hangar 5B, Birrfeld LSZF, N47°26'41 E008°13'51

**Trainers:** Dan Ruiters / Bruno Oberlin

### Timetable

10:00	Start of course
10:00 – 10:15	Presentation of trainees and trainers
	Safety brief
	Course contents
10:15 – 11:00	OCM principles, presentation of forms
	Engine inspection logics, OCM tasks practical work
11:00 – 11:10	Coffee break
11:10 – 12:30	OCM tasks practical work
12:30 – 13:00	Lunch break
13:00 – 15:15	OCM tasks practical work and on requests, Q&As
15:15 – 15:30	Debriefing, exchange of experience, miscellaneous
15:30	End of course



## **Modules**

### *Engine analysers*

- Theory, use, data download (Savvy)
- Brands (Avidyne Entegra R9 / Avidyne Entegra / EX5000 / Dynon EMS-D10, EMS-D120, Flight DEK-D180, SkyView / Garmin G1000 or Perspective / J.P. Instruments EDM-series)
- Correlation analysis

### *Borescope*

- Different types, minimum requirements of tool
- Recognition of damage for valves, pistons and cylinder walls, examples
- Borescope practice, technique and documentation, correlation analysis

### *Compression*

- Conditions and equipment required
- Safety measures
- Measurement practice, technique and documentation, troubleshooting

### *Oil change and oil sample*

- Conditions and equipment required (AvLab / Blackstone / ALS)
- Engine oil filtering theory
- Sampling procedure

### *Oil filter*

- Filter removal and installation rules and tips
- Oil filter cutting, opening and inspection method, practice

### *Spark plugs*

- Removal and installation
- Inspection and service

### *Ignition system*

- Theory of operation
- Timing check, adjustment methods

### *Propeller*

- Thorough inspection principles for blades and hub, required tooling
- Blade play measurement practice
- Blade tracking measurement practice