EASA PART 145 / JAR 145

ATG SOLUTIONS FOR THE AIRCRAFT MAINTENANCE
- NDT PERSONNEL QUALIFICATION
- WELDERS QUALIFICATION
- OUTSIDE AGENCY SERVICES
- LEVEL 3 SERVICES
- NDT EQUIPMENT FOR MAINTENANCE ACTIVITIES

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ATG possibilities for the aircraft maintenance

ATG offers services for the aircraft maintenance according to EASA Part 145/JAR 145/FAR 145, which are standards joined with NDT personnel and welders' qualification and deliveries of equipment, requested for the aircraft maintenance, especially for the NDT process. Very similar spectra of the offer can be provided for the aircraft producers or manufacturers, according to EASA Part 21.

ATG has experienced and skilled staff responsible for training and consultancy in the field of EASA Part 145/JAR 145/FAR 145. All trainers are active as the providing inspectors and designers of new equipment for NDT process. Moreover, ATG is approved by EASA for process D1 (NDT) according to EASA Part 145.

ATG can support you in following fields

**NDT PERSONNEL QUALIFICATION**

According to EN 4179/NAS 410.

**WELDERS QUALIFICATION**

According to EN 287 or ISO 24394:2008 as it is requested by AMC 145.30 All NDT and welding personnel shall be qualified strictly according to the requirements of AMC.

**ATG IS APPROVED AS AN OUTSIDE AGENCY**

(Qualification Body) by National Aerospace NDT Board according to EN 4179/NAS 410 for all usual NDT methods and all Levels (1,2,3) for the following methods:

- **UT (Ultrasonic Testing) plus**
  - Phased Array - an additional qualification to UT Level 2 in the range of 40 hours
  - TOFD - an additional qualification to UT Level 2 in the range of 40 hours
  - UT tanks + C-scan - an additional qualification to UT Level 2 in the range of 40 hours
  - Testing of composite structures - an additional qualification to UT Level 2 in 40 hours, including visual, impedance, resonance, tapping, and pitch-catch methods

- **RT (Radiography Testing) plus**
  - Digital Radiography – an additional qualification to RT Level 2 in the range of 40 hours

- **MT (Magnetic Particle Testing)**

- **FPI/PT (Fluorescent Penetrant Inspection / Penetrant Testing)**

- **VT (Visual Testing)** including boroscopy, fibroscopy, and videoscopy

- **LT (Leakage Testing)**

- **IRT/TT**
  - (Infrared Thermography)

ATG is able to manage qualification for **AT (Acoustic Emission Testing)** and **ST (Shearography Testing)** on request. ATG can qualify personnel for **Oil Analysis / Tribology** as well.
ATG CAN MANAGE WELDERS QUALIFICATION (TRAINING AND EXAMINATION)

According to EN 287, ISO 24394:2008 respectively – qualification is covered and controlled by CWS ANB (Czech Welding Society Authorized National Body).

ATG IS EXPERIENCED BY MANY TRAINING AND INSPECTION BIDS

The main references are following:
- Czech Republic – Czech Airlines, Travel Service, Job Air/CEAM
- Slovakia – Slovakian Airlines, Danube Wings
- Russia – Aeroflot, Rossya Airlines, Volga Dnepr, S7, UT air, Ural Airlines, Yamal Airlines, BLMZ
- Ukraine – Aviadinamika
- Iraq – Iraq Airways, ...

DIFFERENT LANGUAGES AND LOCATIONS AVAILABLE

ATG can provide qualification courses and examinations in English, Russian, Czech, Slovakian [and in limited range in French, German and Arabic] language

ATG can provide qualification courses and examinations in different training centers

Czech Republic (Prague, Ostrava), Slovakia (Trencin, Kosice), Russia (Moscow, Sankt Petersburg, Ukraine (Kiev), Turkey (Istanbul), UAE (Abu Dhabi), Serbia (Beograd), Iraq (Baghdad), or on the plants of our customers

SERVICES LEVEL 3 / SERVICE OF THE OUTSIDE AGENCY

ATG can support the Customer in all requested activities of Responsible NDT Level 3

Preparation of the Customer/Employer Written Practice according to EN 4179/NAS410, Written Procedures for all NDT methods, Performance Review of NDT personnel, internal auditing, implementation of the Customer QA system of NDT process etc.

ATG uses a previous qualification of your NDT operators to make the qualification process more effective.

ATG can support Customers by activities of the experienced NDT personnel (Level 2 or 3) in case of the absence of own experienced NDT personnel.

Explanation:

Personnel qualification of NDT personnel requires training, exams (it is performed by external qualification body – Outside Agency) and approved and documented practical experience in defined NDT method. If the trainee has no experience, he can be lead/controlled by qualified NDT Level 2 or 3, who will be responsible for approval/signing of the test protocol/report.
Production

NDT EQUIPMENT FOR MAINTENANCE ACTIVITIES

WHEELS AND BRAKES MAINTENANCE:
ATG can deliver the whole requested pocket of equipment needed for maintenance of wheels and brakes as follows:

- **MPI bench** with flat coil for magnetic particle inspection of brakes according to ASTM 1444
- **FPI line or cabin** for penetrant testing of wheels according to ASTM 1417
- **ET manipulator** – ADVANCED WHEEL TESTER – for eddy current testing of wheels
- **Calibration blocks / pieces** according to aircraft supplier NTM (Non Destructive Testing Manual)

FPI/PT (FLUORESCENT PENETRANT INSPECTION/PENETRANT TESTING)

- **Manual FPI lines “LPM”** up to 3000 mm main dimension of tested part for water-washable or post-emulsifiable penetrant system acc. to ASTM 1417
- **Manual FPI cabins “KPM”** for all penetrant testing systems
- Both types of equipment fulfill requirements of ASTM 1417
- All requested accessories and measuring devices requested for right performance of FPI/PT process - UV meters, lux-meters, digital thermometers, test panels PSM-5, NiCr Twin Tapered Test Panels etc.

MPI/MT (MAGNETIC PARTICLE INSPECTION/MAGNETIC PARTICLE TESTING)

- **Electromagnetic yokes**, safe voltage 42 V or 230V
- **MPI - Magnetic generators** according to ASTM 1444, AC, HWDC, FWDC up to 8000 A with special coils
- **MPI benches AEROTESTER** according to ASTM 1444 with option of Quick Break up to 8000 A and 4000 mm of clamping length, AC or FWDC
- All requested accessories and measuring devices requested for right performance of MT process - UV meters, lux-meters, magnetometers

ET (EDDY CURRENT TESTING)

- **ET - Eddy Current defectoscopes ELOTEST**
- **ET probes**
- **ET manipulator for wheels testing WHEELTESTER**
- **ET test panels/calibration blocks**

UT (ULTRASONIC TESTING)

- **UT - Ultrasonic defectoscopes SONATEST, VEO and PRISMA Phased Array**
- **UT probes**
- **UT jigs and manipulators for Phased Array and TOFD applications - PHOENIX**
- **UT test panels/calibration blocks**

CALIBRATION BLOCKS

- ATG is a manufacturer of the calibration blocks for all NDT methods according to the appropriate NTM (Nondestructive Testing/Manual) of the Manufacturer.

Approved by / Comply with: Airbus, Boeing, FMC, Honeywell, Rolls-Royce, Sikorsky ...