

Concept.
Capabilities.
Contacts.

Service
Programme



**Lufthansa
Technical Training**

Quality based on experience

Member of the Lufthansa Technik Group



Qualification for personnel in the business of aviation maintenance

Addressing the industry's need for training excellence

The success of an aviation business depends on the quality, efficiency, safety and flexibility of its operations, be they in the air or on the ground. Although state-of-the-art technology and systems are an important part of the equation, the crucial variable is the qualification of your most important asset – your people. Knowledge, skill, attitude and creativity are the key differentiators. And that comes from training.

That is why more than 260 companies worldwide in aviation manufacturing, maintenance, repair and overhaul (MRO) and other aviation-related fields trust Lufthansa Technical Training (LTT) with keeping their personnel up to speed at all levels in all areas – a company built on 40 years of experience in aircraft maintenance and operations optimisation.

From Technical to Management Training, LTT not only offers training programmes that meet EASA, FAA and many National Aviation Authorities requirements, but also will create individual training packages for your organisation's specific needs and budget. That is because you benefit from our competitive advantages:

- A lean organisation with a global reach
- A set of capabilities that is one-of-a-kind in the industry.
- Access to the experience of the world's leading maintenance organisation
- Innovative training concepts

Effective training methods and methodology

Basic Training, Maintenance Training and Management Training – each one of these areas within LTT's portfolio operates with the training methods of instructor-led in classroom environment, practical training in dedicated workshops and in the maintenance environment, as well as state-of-the-art e-learning elements. In order to best implement all of these, courses are designed along the principle of "blended training" – optimum training is a mix of diverse, yet compatible and complementary training methods. The success of LTT's model comes from a modular approach to training. This concept makes it easy to select just the right amount of training to suit the individual knowledge and experience level of the participants. We can then combine the various training units to design a tailor-made programme to meet your organisation's specific requirements – from a single course all the way through to an extended learning curriculum.

Minimising downtime and maximising benefits

Our roots within Lufthansa also mean that we appreciate the value of a smooth, integrated training system that minimises disruption of day-to-day operations and enables trainees to directly apply new knowledge and new skills. Our programmes are designed around your team and your schedule, and to add value from the first minute of instruction. If your business is aviation, LTT is your partner when it comes to keeping your most valuable asset, your people, as competent, efficient and motivated as they can be. Sharing our knowledge, skills and experience.



Basic Training

Target Group

- Experienced maintenance staff (sheet metal workers, aircraft mechanics/electricians/technicians/inspectors, engineering and manufacturing personnel)
- Apprentices and beginners in aviation

Objective

- Acquisition, upgrading and preservation of basic aviation engineering knowledge and skills
- Acquisition of knowledge according to EASA Part-66 to obtain and maintain certifying staff licenses

Methods and Media

- Theoretical classroom training
- Practical skills training in apprentice workshop and/or maintenance environment
- Modular e-learning courseware on several fundamental subjects

English Courses

LTT offers elementary, intermediate and advanced level courses, customised to suit the learning needs of a specific target group:

- Technical English for different types of mechanical and electro-technical occupations
- Simplified English, e.g. for writing technical manuals using the pre-defined rules of AECMA
- Operational English, e.g. for aircraft push-back
- Business English, e.g. negotiation skills, commercial correspondence
- Special Services, e.g. train the trainer, courseware development

Line & Base Maintenance Fundamentals

Line & Base Maintenance Training is based on a modular concept, meeting the official requirements, and leads to the EASA Part-66 License:

- Modular training concept in line with the knowledge requirements of EASA Part-66 for Categories A, B1, B2 aircraft maintenance licenses – ranging from single short courses to two-years training programmes
- Modules M1 – M17 are available on various levels taking into consideration different entry qualifications
- EASA Part-66 Conversion Courses
- Skills Training (e.g. electrical/avionic and structure repair hand skills)

Maintenance Management

LTT offers a wide variety of courses to support operators and MRO's in maintaining continuing airworthiness of their aircraft. Key training service areas are:

- Human Factors in Maintenance
- Aviation Legislation
- Quality Management
- Maintenance Management

Continuation Training

Modular training concepts to support the fulfilment of EASA Part-145.A.30 and 145.A.35 requirements in areas:

- Human Factors
- Aviation Legislation
- Technical Knowledge/Improvements
- Company Procedures

Structure / Engine / Component Courses

LTT applies a modular training concept in accordance with the ATA Spec. 104:

- Structure Repair: e.g. various type-related courses, Processes & Procedures, Composites, Non-Destructive Testing, Corrosion Prevention and Control
- Engine Overhaul courses for a large variety of engine types (e.g. GE, CFM, PW, IAE)
- Component Shops: e.g. aircraft mechanic and avionic systems, aircraft related handbooks

Vocational Training

In addition to international recognised Basic Training Programmes in accordance with EASA Part-66 requirements LTT offers a broad range of qualification programmes following the highly recognised standards of the German Chamber of Industry and Commerce. Capabilities range from aircraft related to general technical trades supplemented by programmes in business administration and IT-services.





Maintenance Training

Target Group

Personnel holding a national or international aircraft maintenance license as well as all the other technical and non-technical staff working in MRO organisations

Objectives

Acquisition of initial and continuous knowledge and skills necessary to perform and certify line and base maintenance tasks and airframe, engine and component overhaul for all aircraft and engines as listed below

Methods and Media

- Theoretical classroom training
- Practical training on aircraft, engines and components
- Simulator training
- Computer Based Training

Course Design

Contents and levels in accordance with ATA spec. 104 or according to individual customer demand

■ Aircraft Type Training

- | | | |
|---|--|---|
| • Airbus:
A300B2/B4*
A300-600
A310-200/300
A318/319/320/321
A330-200/300
A340-200/300
A340-500/600
A380-800 | • Boeing:
B727-200*
B737-200*
B737-300/400/500
B737-600/700/800/900
B747-100/200/SP
B747-400
B757-200/300
B767-200/300
B777-200/300 | • Canadair Regional Jet:
CRJ100/200
CRJ700

• Boeing/McDonnell Douglas:
MD11
DC10 |
|---|--|---|

■ Engine Capabilities for Type and/or Overhaul Training

- | | | |
|--|--|--|
| • General Electrics:
CF6-50
CF6-80
CF34
GE90 | • CFM:
CFM-56

• IAE:
IAE V2500

• Rolls-Royce:
RR RB 211
RR Trent 500/700
RR Trent 900 | • Pratt & Whitney:
JT-8D
JT-9D
PW2000
PW4000 |
|--|--|--|

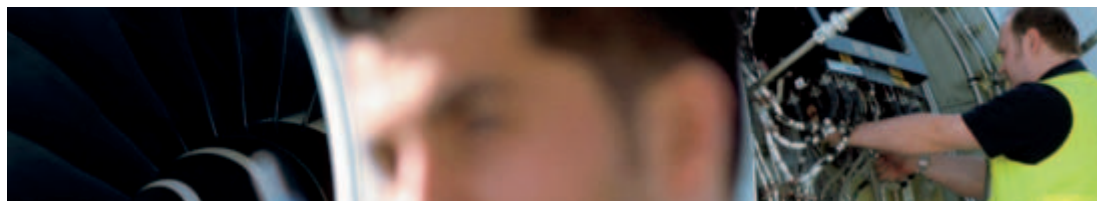
■ Overhaul Training for Engines, Airframes and Components

Various specialised courses on request according to type capabilities as listed above

■ Continuation Training

- Aviation Legislation
- Train the trainer and coaching to teach Aviation Legislation subjects
- Latest development in International Aviation Regulation
- Assist organisations to interpret International Aviation Regulation
- Human Factors in Aircraft Maintenance
- Train the trainer and coaching to apply the Human Factors training concept
- Systematic approach to analyse incidents in regard to Human Factors
- Assist organisation to build specific event investigations exercise
- Subscription for access to electronic event investigation exercise
- Relevant Technology
- Dedicated training letter for new systems
- Interactive web based training modules
- Handling experience of On Board Maintenance Systems
- Short training courses for more complex system changes

* in cooperation with training network partner



Management Training

■ IT Training Services

Target Group

All personnel using computers in their working environment

Objectives

Acquisition of practical knowledge about the capabilities of specific software programmes and how to handle them

Methods

Workshops and, if requested, one-to-one training in computer classrooms

Areas of competence

- MS-Office, VBA-Programming, MS-Project
- SAP (e. g. for Purchasing Managers or Business Warehouse)
- Travel Management Systems (AMADEUS)
- and more

■ Maintenance Management Training

Target Group

Technical Management and supervisory staff, certifying staff, production support staff, material management staff, quality managers and auditors

Objectives

These seminars and trainings demonstrate how to manage and organise aircraft maintenance, how to meet legal requirements and how to achieve commercial goals based on a properly working quality management system from the perspective of a larger Part-145 maintenance organisation.

The course enables the customer to achieve best practice based on up-to-date, specific, legislative and organisational requirements in the aircraft maintenance environment.

Methods

Seminars, Workshops, Blended Learning, Coaching, Consulting

Areas of competence

- Legal Requirements (EASA Part-145, -21, -66, M, JAR OPS 1/Sub M)
- Aircraft Documentation (e. g. AMM, CMM, IPC, MEL)
- Production Planning and Control (e. g. Customer Request, Layover Phase, Invoice)
- Maintenance Planning, MSG 3, Reliability Programme Development and Analysis
- Material Management (e. g. Store Management, Service Level Assessment)
- Quality Management and Auditing
- Development of Qualification Programmes for EASA Part-145 staff
- and more

■ Expert & Executive Training

Target Group

Experts and management staff from team leader to top manager in the aircraft maintenance business, in the field of aviation or in other industries

Objectives

Acquisition of knowledge and skills to optimise management strategies and techniques in the aircraft maintenance environment, in aviation business or in other industries from the perspective of a recognised Part-145 maintenance organisation.

Methods

Workshops, Seminars, Conferences, Individual Top Management Coaching

Areas of competence

- Economical Viability and Efficiency
- Human Resources Management
- Leadership Techniques and Skills
- Project Management (Preparative to IPMA and IPC Certification Process)
- Negotiations, Acquisitions and Sales
- Personal Self-Management Skills
- Trainer Qualification
- Leadership programmes for shop floor managers in maintenance organisations, in the aviation business or in other industries. These programmes aim at
 - enhancing productivity and efficiency
 - procuring performance improvement techniques
 - applying professional change management know-how
- and more

■ Management Programmes

Target Group

Upper and high-level management in the aircraft maintenance business, in the field of aviation or other industries

Objectives

The most current information out of management techniques, business sectors and scientific research will be presented to the participants. Those modules can be embedded in a challenging framework programme consisting of aviation related modules, industry field inspection and cross-cultural activities as required.

Methods

Seminars, up-to-date knowledge transfer by experts from the aviation business or other benchmark industries, management institutes and universities

Areas of competence

- General Management Programme
- Business Administration Programme
- Human Resources Management Programme





Consulting Services

LTT Consulting Services support Airline, MRO and Maintenance Training Organisations throughout the entire process of their business. LTT has a highly educated and experienced staff as well as a highly documented quality process. This capability is based on the Lufthansa Technik aircraft maintenance experience and licenses of all LTT instructors and on the thousands of hours of training delivered over our long history. This practical and professional experience can be transferred to your organisation with services that include, but are not limited to the following:

■ Personnel Selection

An important first step to qualification of personnel is selection. LTT has a structured process to identify, screen, interview, select, review, and promote personnel that are most likely to succeed within maintenance and training organisations. LTT not only can help organisations to select best applicants but also can help qualify new personnel and requalify current personnel for the variety of challenges within the organisation.

■ Personnel Qualification

LTT delivers training worldwide and understands the variety of regulations from National Aviation Authorities. LTT was the very first school to be approved under the JAR-147 (now: EASA Part-147) rules and continues to adapt to evolving rules of the European Aviation Safety Agency. LTT assists organisations to design the training to ensure new and continuation training that not only meets the regulatory requirements but also promises continuing safety, efficiency, and cost control. LTT experience in the field of instructional design also includes the successful integration of eLearning. The popular "Train-the-Trainer" course helps to prepare new staff or sharpen the skills of experienced training personnel.

■ Organisational Development in Training Centers

LTT has co-established new training centers in Germany, China, Taiwan, the United Kingdom, the Philippines and Chile. In these efforts LTT has faced the challenges of matching training systems, curricula, local cultures and work rules, to the available financial resources and local capabilities.

■ Coaching

LTT uses their organisational development experience to help training departments plan ahead for the inevitable challenges of establishing and operating a high quality organisation. LTT also provides "Coaching" to help individuals and organisations to strive for their highest potential. Our experienced coaches can focus on individual personnel or can help the organisation to consider business strategy; and product design, development and marketing.

■ Human Factors Training and Safety Management Programmes

LTT personnel have been involved in Human Factors Training for over twenty-five years. This is not a new business for LTT, although it is a new and emerging requirement for most national aviation authorities and maintenance organisations. Furthermore LTT offers a systematic review of engineering and maintenance organisations with a specific focus on human performance issues, derived from successful aviation processes. LTT helps organisations to establish systems to manage safety issues to train their personnel, and comply with new international regulations and requirements.

■ Human Resources Management

Training and maintenance organisations often have a temporary requirement for personnel. The requirement can range from Senior Manager to Material Manager to Project Manager to Technical Instructor for a specific aircraft type. LTT can provide experienced temporary personnel to fulfil a requirement from one week to one year. The client enters such a relationship knowing that they will have immediate access to high experienced personnel who add value on the first day on the job.

Lufthansa Technical Training Group Presence and Capabilities Worldwide

Lufthansa Technical Training Centre Philippines, Manila, Philippines

■ Maintenance Training:

- Aircraft type training are in accordance to ATA 104 Level I to III standards:
- A320, A330*, A340*
- B737/300-500, B747-200, B747-400

■ Engine Type Training:

- CFM56-3, CFM56-5B
- CFM6-80 C2, CFM6-80 E1

■ APU Courses:

- APS3200
- GTCP 331-350
- GTCP 85-139
- PW901A

* including practical training

Certification: All courses are accredited by the Air Transportation Office of the Philippines

Lufthansa Resource Technical Training, Cwmbran, Wales, Great Britain

■ Basic Training:

- EASA Part-66 Approved Cat. A and Cat. B1 Training Programmes
- EASA Part-66 Modular Cat. A and Cat. B1 Training Programmes

■ Conversion Training:

- UK CAA LWTR to EASA B1
- EASA Part-66 Cat. A or Cat. B2 to Cat. B1
- Human Factors Training
- Airbus Alu Crimp and Electrical Hand Skills Training
- Airbus Drawings Training
- Composite and Structural Repair Training
- Technical Aviation English Courses
- Apprentice Training Programmes

Certification: EASA Part-147 approved Basic Training organisation

Lufthansa Technical Training Taiwan Branch Office, Taipei, Taiwan

■ Basic Training:

- EASA Part-66 Cat A, B1 and B2 Training Programmes
- EASA Part-66 Conversion Courses
- FAR-66: Full Airframe/Powerplant Basic Training Programmes
- Technical Aviation English Courses
- Sheet Metal Structure Repair Courses
- Handbook Reading
- Basic Electrical Skills

Certification: Basic Training and Aircraft Maintenance Fundamentals in accordance with FAR-147, approved under CAR-147 and EASA Part-147

TRAINICO Training und Ausbildung Cooperation, Berlin, Germany

■ Vocational retraining and further training:

- Aviation technical occupations
- Aviation commercial occupations

■ Aviation-oriented Maintenance Training:

- Expertise courses
- Seminars
- Basic Training in accordance with EASA Part-66

Certification: EASA Part-147 approved Training organisation

Lufthansa Lan Technical Training S. A., Santiago de Chile, Chile

■ Basic Training:

- Airframe, Powerplant and Avionics Fundamentals
 - Technical Aviation, AEM Simplified and Business English
- #### ■ Maintenance Training:
- B707, B727, B737/200-800, B757, B767
 - A318-A321, A330, A340
 - DC-8/9/10, MD-80, MD11
 - Specialised training courses acc. ATA Spec. 104 Level 4
 - EASA Part-66 approved training courses in cooperation with LTT

■ Consulting:

- Instructor Qualification
- Media Development, Facility Development

■ Production Support Training:

- Human Factors in Aircraft Maintenance
- Train the Trainer
- Material Incoming Inspection
- RII - Inspection Course
- Engineering & Production Support courses

Certification: EASA Part-147 approved Training organisation

Aviation Power, Frankfurt, Germany

- Aviation Power offers you access to a pool of qualified personnel within the field of aviation, as skilled metall workers, aircraft mechanics, production engineers and other graduate engineers



Customer Service

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