

Basic Training

Structure Repair

Expenditure for structure repair activities are the consequence of labor costs. Hence, improving human performance provides a contribution for achieving more effective economical results.

Our structure repair courses provide essential technical information as well as the basic and special knowledge required for maintenance personnel who are involved in the repair of aircraft structures in the field of commercial aviation.

Each training course is aimed at creating confidence based on knowledge and understanding.

Our structure training is built on a firm basis that will enable the student to perceive:

- materials on modern transport aircraft and their application
- design principles and their derivatives
- categorisation of different types of damage on aircraft structures
- basic application of aircraft manuals such as Structure Repair Manual
- overhaul procedures linked to the Structure Repair Manual
- conduction of typical repairs based on the Structure Repair Manual as well as the operation of special tooling
- safety precautions related to aircraft structures

Features

- Hands-on as well as theoretical training
- Provide strong technical foundations in the classroom, and then proceeding to the workshops for practical training
- Combine classes and tailored content for a specific project
- Develop a curriculum to meet your unique structure training requirements

Advantages

- LTT instructors having vast experience and up-to-date knowledge
- We provide training on-site to reduce travel expenses
- Personalized training to solve your specific structure challenges
- Students' practical problems can be dealt with in the classroom, hence saving time and money
- Real-life structure repair cases enhance trainees' proficiency
- Students are supplied with troubleshooting techniques that save both time and money
- Participants determine repair procedures and repair actual parts
- Conduction of training at customer's facilities



Lufthansa
Technical Training

Quality based on experience

Products

Structure Repair Courses (Aircraft related)

Duration:	5 days
Course Objectives:	All courses enable maintenance technicians to become confident with the use of the Structure Repair Manual to assess common damages a specific aircraft structure. It includes a detailed study of the SRM in terms of layout, content and procedures used for structure purposes, from day to day maintenance tasks up to heavy structural repairs. A detailed study of aircraft structure including design concepts, construction, principles and material application as well as hands-on manual training will be conducted in the classroom This course fulfills ATA 104 Level IV objectives
Target Group:	Technicians with previous structure experience
Prerequisites:	Entry level up to senior level maintenance technicians with a minimum of one year experience on modern transport aircraft. Fluent in English or German

Title	ID	Duration	
Airbus Aircraft:			
A319/320/321	Structure Repair	FS301	5 days
A340-200/-300	Structure Repair	FS303	5 days
A340-500/-600	Structure Repair	FS304	5 days
A310/A300-600	Structure Repair	FS308	5 days
Boeing Aircraft:			
B737-300/-500	Structure Repair	FS402	5 days
B737-600/-900	Structure Repair	FS403	5 days
B747-200/-400	Structure Repair	FS405	5 days
B757-200/-300	Structure Repair	FS406	5 days
B767-200/-300	Structure Repair	FS407	5 days
B777-200/-300	Structure Repair	FS408	5 days

Processes & Procedures

Aircraft Inspection Findings

FS102

Duration:	3 days
Course Objectives:	This course prepares a maintenance technician, with an A&P license (or equivalent) and two years experience on transport category aircraft, to perform inspections on transport aircraft during overhaul and maintenance This course fulfills ATA 104 Level IV objectives
Target Group:	A&P Mechanics, Airframe Mechanics, Avionics
Prerequisites:	Senior level maintenance technicians or delegated inspectors with a minimum of two years experience on transport aircraft. Fluent in English or German

SRM Handskill Training

FS103

Duration:	5 days
Course Objectives:	This course enables structure technicians to regain the ability to perform typical repairs on metal structure parts. It is aimed at participants who have already acquired experience in structure repair work but whose practical employment dates back several years. All repairs in the practical training follow the guidelines of the Structural Repair Manual This course fulfills ATA 104 Level IV objectives
Target Group:	Structural repair technicians, airframe mechanics or sheet metal workers who have acquired experience in structure repair but whose practical employment dates back several years
Prerequisites:	Skilled structural technicians with basic experience in structure repair of metallic aircraft parts. Fluent in English or German

Fatigue Improvement

FS107

Duration:	7 days
Course Objectives:	This course informs the student about the fundamentals of fatigue improvement procedures on metallic aircraft structures. The course includes lectures, demonstrations and hands-on practice. The hands-on practice includes Splitsleeve Cold Expansion, Flap-Peening and Taper-Lok installation All practical exercises follow the guidelines of the Structural Repair Manual This course satisfies ATA 104 Level IV objectives
Target Group:	Structural repair technicians involved in structure repair and maintenance of modern transport aircraft.
Prerequisites:	Previous structure experience. Fluent in English or German

Basic Training for Aircraft Painting and Removal

FS004

Duration:	15 days
Course Objectives:	This course trains aircraft varnishers in aircraft painting and paint removal procedures required to perform finishing repair work on different aircraft types during Line and Base Maintenance This course fulfills ATA 104 Level IV objectives
Target Group:	Painter and Varnisher, Lacquerer
Prerequisites:	Varnisher with prior experience on painting ranging from aerospace and/or automotive industries. Fluent in English or German

Aircraft Structure Fundamentals

FS006

Duration:	30 days
Course Objectives:	Entry level structural repair technicians will gain the basic knowledge of working with common sheet metal tools to perform general aircraft structural repairs. The course trains the description and operation of basic sheetmetal repair tools as well as knowledge about basic aircraft hardware such as common materials and fastener installation and removal procedures. All repairs performed in the practical training follow the guidelines of the Structural Repair Manual This course fulfills ATA 104 Level IV objectives
Target Group:	Entry-level structural Repair Technicians, entry level Airframe Mechanics, Sheetmetal Worker
Prerequisites:	Basic knowledge of structure repair work on transport aircraft Fluent in English or German

Fastener Installation and Removal

FS008

Duration:	5 days
Course Objectives:	This course prepares the participant to locate, identify and interpret the correct fastener type as well as determine the appropriate fastener removal and installation procedure. Demonstrations and student practice sessions on all aspects of fastener types are part of this course. All hands-on training follows the guidelines of the Structural Repair Manual This course fulfills ATA 104 Level IV objectives
Target Group:	Airframe Mechanics, Entry-level Structural Repair Technicians
Prerequisites:	Basic knowledge of structure repair work Fluent in English or German

Fuel Tank Repair

FS009

Duration:	10 days
Course Objectives:	This course prepares structural technicians with the background and knowledge of an accurate detection of fuel leak sources as well as how to perform the required corrective repairs. All repairs performed in the practical training follow the guidelines of the Structural Repair Manual This course fulfills ATA 104 Level IV objectives
Target Group:	Airframe Mechanics, Structural Repair Technicians involved in fuel leak detection and repair
Prerequisites:	Basic knowledge of structure repair work on modern transport aircraft Fluent in English or German

Documentation

Airbus Drawing Systems

FS501

Boeing Drawing Systems

FS502

Duration: 2 days

Course Objectives: This course prepares the trainee to locate, identify and interpret the correct drawing for a specific aircraft. The course includes written exercises and solving drawing based problems.
This course fulfills ATA 104 Level IV objectives

Target Group: Airframe Mechanics, Airframe and System Engineers, A&P Mechanics

Prerequisites: Senior level maintenance technicians or a minimum of two years experience on transport aircraft
Fluent in English or German

Corrosion Prevention and Control

FS503

Duration: 2 days

Course Objectives: This course qualifies maintenance technicians in the control and prevention of aircraft corrosion as well as corrosion removal methods and preventative maintenance
This course fulfills ATA 104 Level IV objectives

Target Group: Airframe Mechanics, Maintenance Technicians involved in structure repair

Prerequisites: Experienced airframe mechanics and/or structure specialists. Fluent in English or German

Composites

Composite Repair Handskill Training

FS204

Duration:	5 days
Course Objectives:	<p>This course enables structure technicians to regain the ability to perform typical repairs on a composite structure. It is aimed at participants who already have experience in composite repair work but whose practical employment dates back several years.</p> <p>All repairs in the practical training follow the guidelines of the Structural repair Manual</p> <p>This course fulfills ATA 104 Level IV objectives and is designed for those who will actually perform repairs on modern transport aircraft</p>
Target Group:	Airframe Mechanics, Maintenance Technicians involved in composite repair
Prerequisites:	<p>Skilled structural repair technicians with basic experience in composite repair.</p> <p>Fluent in English or German</p>

Composite Fundamentals

FS205

Duration:	5 days
Course Objectives:	<p>This course familiarise structural technicians with composite materials and their application on modern transport aircraft. The student will acquire a basic understanding of standard practices for composite repair with reference to the SRM</p> <p>This course fulfills ATA 104 Level IV objectives</p>
Target Group:	Entry-level Airframe Mechanics, Sheetmetal Worker
Prerequisites:	<p>Basic knowledge of structure repair work on modern transport aircraft</p> <p>Fluent in English or German</p>

Composite Advanced Repair

FS206

Duration:	10 days
Course Objectives:	<p>This course prepares structural technicians on composite repair to evaluate and repair damages on complex composite structure parts and it is designed as a follow-up to the composite fundamentals course. It concentrates on difficult and realistic repair situations. Most of the class is devoted to hands-on repair practice. All repairs performed in the practical training follow the guidelines of the Structural Repair Manual.</p> <p>This course fulfills ATA 104 Level IV objectives</p>
Target Group:	Senior-level Airframe Mechanics, experienced Structural Technicians, Maintenance Personnel who will actually be assessing damages on composite parts or performing composite repairs
Prerequisites:	<p>Previous experience in composite materials and processing or who have already attended the Composite Fundamentals Course.</p> <p>Fluent in English or German</p>





Information

All courses, detailed course descriptions as well as dates for open courses are available on our website.

Booking requests may be carried out also through the web.
All courses can be held at the premises of LTT or as Inhouse training at your own facilities. Instruction languages are English and German.

Please contact our Customer Service should you have any questions or should you need assistance from our sales team.

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