

# Jr. Diploma in Aircraft Maintenance



**ADVANCED SOLUTIONS  
TECHNICAL INSTITUTE**

Fostering science and technology



LIPS Research & DL  
Centre for Advanced  
Research & Development





# Jr. Diploma in Aircraft Maintenance

LIPS Research & DL Centre for  
Advanced Research & Development

01/1 MINI-MODULE  
AM 414

Pedagog

## JR. DIPLOMA IN AIRCRAFT MAINTENANCE

Industry Certified Course by LIPS RESEARCH & DL Centre  
for Advanced Research & Development

The course is designed to deliver the fundamentals of aircraft, its function, components, construction and even maintenance.

Junior Diploma courses were set up as part of a skill development mission to fulfil the growing need across the globe for skilled manpower across sectors and narrow the existing gap between the demand and supply of skills.

There is a compelling need to launch a world-class skill development course in a mission mode that will address the challenge of imparting the skills required by a growing economy. Thereby our JUNIOR DIPLOMAS are designed in such a way, that a very beginner can take up the course and become an expert in that domain. Our diploma programmes can be taken by a 10-year kid and the same is not restricted to a 60-year-old learner.

Pedagog-Ripe time for  
blockchain education

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**“An  
investment in  
knowledge  
pays the best  
interest”  
Benjamin  
Franklin**

## The programme structure enables the students to:

- Visualize the basic concepts of the maintenance and repair of both piston and jet aero engines.
- Memorize the procedures followed for overhaul of aero engines.
- Understand aircraft component disassembly, reassembly and troubleshooting.
- To learn the concept of measurement, error estimation and classification of aviation instrumentation and displays.
- Understand the nature of airframe structural component inspection, corrosion repair and non-destructive inspection.
- Understand general airframe structural repairs, the structural repair manual and structural control programme.

## Junior Diploma in Aircraft Maintenance Certified Course by DLCARD - India

### Unit I- Fundamentals of Maintenance

Maintenance concepts, engineering license and job type, what is maintenance, systems approach, maintenance objectives, responsibilities of maintenance department, types of maintenance systems, planned preventive maintenance (PPM), elements of PPM, implementation of PPM.

### Unit II- Inspection and Troubleshooting

Inspection procedures, maintenance and troubleshooting, inspection of all engine components, daily and routine checks, overhaul procedures, compression testing of cylinders, special inspection schedules, engine fuel control and exhaust systems, engine mount and supercharger, checks and inspection procedures.

### Unit III- Inspection of Jet Engine Aircraft

Functions of jet engine components, gas turbine engine inspection & checks, special inspection procedures, foreign object damage, blade damage, maintenance procedures of gas turbine engines, trouble shooting and rectification procedures, systems maintenance procedures, gas turbine testing procedures, storage of Engines, preservation and de-preservation procedures.

### Unit IV- Aircraft Engine Maintenance Procedure

MRO, regulation of maintenance, responsibilities of airline operators, Routine scheduled maintenance, non-routine maintenance, overhaul of airframes, A Check, B check, D check, C check Aircraft pressurization, emergency procedures, contract maintenance, engine testing procedures and schedule preparation.

### Unit V- Engine Overhaul Procedures

Engine overhaul procedures, inspections and cleaning of components, repairs schedules for overhaul, balancing of gas turbine components, trouble shooting, procedures for rectification, condition monitoring of the engine on ground and at altitude, engine health monitoring and corrective method.

*For queries or training in bulk including live training sessions contact  
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# CERTIFICATION BY



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