

For Syllabus, Question Papers, Notes & many More

AE6002 AIRCRAFT GENERAL ENGINEERING AND MAINTENANCE PRACTICES

DETAILED SYLLABUS

UNIT I AIRCRAFT GROUND HANDLING AND SUPPORT EQUIPMENT

Mooring, jacking, leveling and towing operations – Preparation – Equipment – precautions – Engine starting procedures – Piston engine, turboprops and turbojets – Engine fire extinguishing – Ground power unit.

UNIT II GROUND SERVICING OF VARIOUS SUB SYSTEMS

Air conditioning and pressurization – Oxygen and oil systems – Ground units and their maintenance.

UNIT III MAINTENANCE OF SAFETY

Shop safety – Environmental cleanliness – Precautions.

UNIT IV INSPECTION

Process – Purpose – Types – Inspection intervals – Techniques – Checklist – Special inspection – Publications, bulletins, various manuals – FAR Air worthiness directives – Type certificate Data sheets – ATA Specifications.

UNIT V AIRCRAFT HARDWARE, MATERIALS, SYSTEM PROCESSES

Hand tools – Precision instruments – Special tools and equipments in an airplane maintenance shop – Identification terminology – Specification and correct use of various aircraft hardware (i.e. nuts, bolts, rivets, screws etc) – American and British systems of specifications – Threads, gears, bearings, etc – Drills, tapes and reamers – Identification of all types of fluid line fittings. Materials, metallic and non-metallic Plumbing connectors – Cables – Swaging procedures, tests, Advantages of swaging over splicing.

TEXT BOOK

1. Kroes Watkins Delp, "Aircraft Maintenance and Repair", McGraw Hill, New York, 1993.

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REFERENCES

1. A&P Mechanics, "Aircraft Hand Book", F A A Himalayan Book House, New Delhi, 1996.
2. A&P Mechanics, " General Hand Book", F A A Himalayan Bok House, New Delhi, 1996.

OBJECTIVES

To teach the students about the basic concepts of aircraft general engineering and maintenance practices.