

UNITS OVERHAUL BASIC COURSE

1 -	STRUCTURE DESIGN (4 HRS.)
*	PRINCIPLE LOADS & STRESSES
*	WEIGHT ANALYSIS OF TYPICAL STRUCTURE
*	STRENGTH & RIGIDITY
*	FATIGUE LIFE
*	FAIL SAFE DESIGN
*	FETERNAL LOADS ON AIRCRAFT IN FLIGHT
*	SAFETY CONORD ERATIONS
*	STRUCTURAL BEHAVIOUR UNDER LOAD
2 -	SHEET METAL MATERIALS (18 HRS.)
*	SHEET METAL & CONSTRUOTION, DESIGNETION ON & SPEOIFIOATIES
*	BONDING OF LEMINATED STRUCTURES
*	ERTRUSION & FORMED OECTION
*	MATERIAL SUBSTITTUTION
*	APPROIEATE EQUVALENT ATRENGTH MATERIAL
*	MODERN A / C STRUCTURE OREALINS
3 -	FASTENERS: (2 HRS.)
*	FASTENERS SPECIFICATIONS ANY TYPE
*	FASTENER MATERIALS
*	MARKING OF FASTENERS
*	RED MARKING OF FASTENERS
*	FASTENER CODE
*	FASTENER SUBSTITUTION
*	STRENGTH OF VARIOUS FASTENERS
*	NETALSPRAYING
*	ELECTRO PLATING
*	APPLICATION & TESTING OF ANODIC FILM ON ALUNINUM ALLOYS
*	CHRMATO FILM ON MAGNGSIUM
*	CADINIUM & CHROMINUM ON STEEL
*	GALVANIAING
4 -	NON DOSTRUCTIVE TESTING OF MOTALS (HRS.)
*	METHOD & USE OF NDT
*	MEGNATIO PARTIOLES
*	MAGNETIAING & DEMAGNETIAING EQUIPMENTS
*	FLOURESCENT & DYE PENETRANT
*	FLTRESONIO
*	EDDY CURRENT
*	X - RAY
*	GAMMA RAY
*	INSPECTIONS
*	COMMON FLOUS TO LOOK FOR IN :

*	ALL UMINUIM COSTING
*	FORGING
*	STEEL PARTS
*	WELDED, BRAAED & SOLDERED JOINTS
*	METHOD & TECHNIQUES
*	ANNEALING
*	AGE & ARTIFICIAL HARDENING
*	PRECAUTION BSERVED IN HEAT TREATING
5 -	NON METALLIC MATERIALS (8 HRS.)
*	PLASTICS
*	TRANSPERENT MATERIALS
*	RUBBER & SYNTHETIC RUBBER
*	ABHESIVES
*	FIBERGLASS MATERIAL
*	PROTEOTIVE COATING
6 -	CORROSION (6 HRS.)
*	NATURE OF CORROAION
*	CAUSE OF CORROAION
*	MOST CORROAION AFFECTED MATCRIALS
*	CLASSIFICATIONS OF CORROSION
*	CORROSION PREVENTION
*	CORROAION PROTECTION
*	CORROAION SAFE GUARDS DURING MANUFACTURE & MAINTENANCE
*	METHOD OF REMOVING & DETECTING CORROAION
*	MATCRIALS USED TO PROTECT AGAINST CORROAION
*	INSPECTION OF AIRCRAFT STRUCTURE FOR CORROAION
7 -	FIETAL PROTECTIVE TREATMENT (4 HRS.)
*	CHEMICAL FILMS
*	ANODLEDNG