

**Reference No**

048/295

Duration

2 week

Location

HMS SULTAN

IELTS

6

Frequency9 courses
per year

FIBRE REINFORCED PLASTIC & COMPOSITE REPAIRS (TEM 28)

AIM OF COURSE

To train personnel in the principles and repair of Fibre Reinforced Plastics (FRP) and composites.

OUTLINE SYLLABUS

- ◆ Identification of materials and techniques used in FRP repairs
- ◆ Safety precautions and procedures associated with FRP
- ◆ Examination and analysis of aircraft FRP structure for damage
- ◆ Composite repair utilising the Hot Bonding Controller (HBC)
- ◆ Carry out and record specified FRP repairs
 - Damage surface preparation
 - Prepare all materials and equipment required for repair
 - Carry out a glass fibre skin repair to aircraft radome
 - Manufacture a carbon fibre 'Top Hat' section reinforced rib using a mould
 - Carry out an edge repair to a glass fibre fairing panel
 - Carry out a metal to metal bonded repair to an aluminium sandwich structure
 - Carry out a Kevlar energy absorbing patch repair to a metal structure
 - Carry out a Shurlok fastener replacement repair
 - Manufacture a blister patch using a locally manufactured mould
 - Carry out a carbon/nomex sandwich structure repair using a pre-cured pre-preg patch
 - Manufacture a pre-cured patch using carbon Pre-preg cloth
 - Carry out a scarf repair to a carbon fibre panel
 - Explain the procedure for recording an FRP repair