

# E-Learning Course

## Electrical Wiring Interconnection System (TG 3, 4, & 5) – Initial

### Program Overview

This training is targeted at each person who performs airplane maintenance, inspections, alterations or repairs on Electrical Wiring Interconnection Systems (EWIS). After training, the person is able to properly evaluate the EWIS and effectively use the manufacturers Chapter 20- Electrical Standard Practice Manual (ESPM) for that airplane.

The training program will include EWIS condition, applicable repair schemes, wiring modifications and ancillary repairs to EWIS and components. The training components are integrated to maintain EWIS quality and airworthiness of the airplane.

### Target Group (Audience)

- ➔ Target Group 3: Workshop staff, managers, planning production staff, technical records staff, ARS and technical publications staff
- ➔ Target Group 4: Qualified staff performing general maintenance/inspections not involving wire maintenance
- ➔ Target Group 5: Qualified staff performing other engineering or planning work on in-service aeroplane

### Course Content

Familiarize all the technical staff about:

- ➔ Know or demonstrate the safe handling of airplane electrical systems, Line Replaceable Units (LRUs), tooling, troubleshooting procedures, and electrical measurement.
- ➔ Know or demonstrate the construction and navigation of the applicable airplane wiring system overhaul or wiring practices manual.
- ➔ Know or demonstrate the correct identification of different wire types, their inspection criteria, and damage tolerance, repair and preventative maintenance procedures.
- ➔ Know or demonstrate the procedures to identify inspect and find the correct repair for typical type of connection devices found on the applicable airplane.
- ➔ Understand and general visual inspection and detailed inspection and procedure, human factors in inspection, zonal areas, and typical damages.
- ➔ Know or demonstrate sources, materials, cleaning and protection procedures.
- ➔ Demonstrate the procedures for replacement of all parts of typical types of connective devices found on the applicable airplane.

**Duration** Initial Course: 1 hour 30 Minutes

**Knowledge Check** Initial Course: 28 questions

**Assessment** No Assessment

### Certificate

GAA certificate of recognition is awarded upon successful completion of the course