Cockpit Procedure Trainers

Introduction

Pennant Cockpit Procedure Trainers (CPT) comprise full-size accurate replicas of an aircraft cockpit complete with flying controls, displays and facsimile ejection seat. They provide training for aircrew and groundcrew in;

- cockpit familiarisation
- pre-flight checks
- operational system behaviour
- maintenance and
- fault finding procedures

Pennant CPT's incorporate full simulation of specified systems, which in combination with facsimile controls, switches and indicators, allows students to practice normal and emergency procedures in a realistic cockpit environment. The simulation software replicates the aircraft systems in both normal operating and failure conditions. Exercises can be controlled from the instructor workstation, and recorded for later debrief.

For further information email our sales team:
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Type Training

Pennant has in-house capability and expertise to produce hardware based training systems for applications where a high physical fidelity is required to meet the training objectives. Cockpit Procedure Trainers have been manufactured for the following platforms:-

- Tucano
- Hawk MK115 and Mk200
- Lynx Mk7/9

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Generic Training

To support training on non-specific platforms Pennant has developed a suite of generic trainers that address basic hand skills, fundamental principles, routine maintenance and fault finding. A recent addition to this product line is an Integrated Avionics Maintenance Trainer (IAMT). The IAMT is an aircraft structure with a full size cockpit, with unglazed canopy, representative of a military aircraft combining modern digital displays with older analogue gauges to enable the student to experience a range of aviation technologies.

The IAMT comprises of:

- An aircraft structure containing representative: Cockpit displays, controls and LRUs
- Ejection seat and safety devices
- Replaceable avionics LRUs and equipment housed within realistic avionic bays

Ruggedised tablet from which the student can select and connect virtual test equipment to the aircraft system emulations

- Instructor Operating Station enabling the following functionality: Integrated Training Management System (ITMS)
- Cockpit display repeater screens
- Insertion/Removal of faults
- After Action Review facility

The cockpit utilises a common generic structure containing aircraft-specific fixtures and fittings for the LRUs in order to facilitate psycho-motor dependant training tasks. The IAMT design is modular with each piece of simulated hardware presenting to the user an aircraft-like physical interface and containing an embedded I/O module to handle communication with the remotely executing software emulation to maximise flexibility of use and commonality of design.

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