



Pennant

VIRTUAL AIRCRAFT TRAINING SYSTEM (VATS)

OVERVIEW BROCHURE



INTRODUCTION

The Virtual Aircraft Training System (VATS) enables typical aircraft functional tests and fault-diagnosis procedures to be taught by either instructor demonstration or by student self-paced learning. The high-fidelity screen-based graphical interface replicates realistic scenarios, enabling students to carry out a range of practical training exercises on the system, which they can interact with like they would the real equipment of a virtual fixed wing aircraft, thus enabling progressive understanding of aircraft systems.

VATS is designed to support training methods that may be used to satisfy the theoretical training element in the classroom. The modular and object-oriented design, along with common object libraries, promotes easy update of VATS and thus maximises concurrency with any aircraft configuration.

The emulation element of the software architecture provides the behaviour of the aircraft systems and is based on aircraft connectivity information elicited from aircraft maintenance publications and other supporting documentation.

The emulation includes normal behaviours and the behaviour of the system under fault conditions. A set of propagation algorithms within the emulation engine together with the component models build a fully integrated virtualised representation of the aircraft systems and connectivity to simulate the target aircraft.

To enhance training realism the student is expected to use the operational checklists, maintenance details and procedures, wiring diagrams and other information contained in the published aircrew and maintenance manuals as the reference data for procedural exercises.

The student is also able to call up test sets and ground support equipment, with full graphic emulation and simulated functionality appropriate to the task.



KEY FEATURES

- Virtual aircraft with:
 - Intuitive navigation and operation
 - Detailed aircraft bays and LRUs
 - Integrated aircraft systems simulation
 - Realistic real-time aircraft responses
- Training management system for:
 - Training scenario creation
 - Planning, delivery and real-time monitoring of training scenarios
 - Automatic student assessment and report generation
- Electronic technical publications suite for the virtual aircraft
- Can be installed on a standalone Windows PC or networked for use in a classroom environment
- Covers up to 23 aircraft systems and mechanical elements
- Integrated Training Management System (ITMS)
- VATS provides a fully navigable representation of the simulated aircraft including access to, and operation of, all equipment in the aircraft cockpit and bays around the aircraft.

“ I have found as a training provider that Pennant’s VATS offers a learning environment where students are able to practically consolidate their fault finding and diagnostic skills on modern integrated avionics systems, while being complimented with the use of technical publications that are analogous to real life aircraft technical publications. This quality of training is usually difficult to achieve on physical aircraft training aids. ”

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AVIATION REGULATIONS ALIGNMENT

| EASA/EMAR PT 66 | FAA | City & Guilds | CASA MEA Units |
|--|---|---|---|
| Module 11.4 Air Conditioning and Cabin Pressurisation | ATA 13 Aircraft structures and systems | 4608-50 Level 2 Diploma in Aerospace and Aviation Engineering (Military Foundation Competence) Unit 240 & 259 | MEA219 - Inspect, test and troubleshoot aircraft pressurisation control systems and components |
| Module 11.5 Instruments/Avionic Systems | ATA 21 Air Conditioning | 4608-30 Level 3 Diploma in Aviation Maintenance (Development Competence) Unit 308, 309, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 344, 347, 350, 353 | MEA222 - Inspect, test and troubleshoot aircraft oxygen systems and components |
| Module 11.6 Electrical Power | ATA 24 Electrical Power | | MEA223 - Inspect aircraft electrical systems and components |
| Module 11.7 Equipment and Furnishings | ATA 25 Equipment and Furnishings | 4608-60 Level 3 Diploma in Aviation Maintenance (Development Competence) – Military Unit 354, 355, 367, 368, 369, 370, 371, 372, 373, 374, 375, 389, 390, 391, 392, 393, 394, 396, 427 | MEA224 - Inspect aircraft instrument systems and components |
| Module 11.8 Fire Protection | ATA 26 Fire Protection | | MEA226 - Inspect aircraft electronic systems and components |
| Module 11.9 Flight Controls | ATA 27 Flight Controls | 4608-60 Level 3 Diploma in Aviation Maintenance (Development Competence) – Military Unit 354, 355, 367, 368, 369, 370, 371, 372, 373, 374, 375, 389, 390, 391, 392, 393, 394, 396, 427 | MEA227 - Test and troubleshoot aircraft electrical systems and components |
| Module 11.10 Fuel Systems | ATA 28 Fuel Systems | | MEA228 - Test and troubleshoot aircraft instrument systems and components |
| Module 11.11 Hydraulic Power | ATA 29 Hydraulic Power | 4608-60 Level 3 Diploma in Aviation Maintenance (Development Competence) – Military Unit 354, 355, 367, 368, 369, 370, 371, 372, 373, 374, 375, 389, 390, 391, 392, 393, 394, 396, 427 | MEA229 - Test and troubleshoot aircraft radio frequency navigation and communications systems and components |
| Module 11.12 Ice and Rain Protection | ATA 30 Ice and Rain Protection | | MEA232 - Test and troubleshoot aircraft pulse systems and components |
| Module 11.15 Oxygen | ATA 31 Indicating/Recording Systems | 4608-60 Level 3 Diploma in Aviation Maintenance (Development Competence) – Military Unit 354, 355, 367, 368, 369, 370, 371, 372, 373, 374, 375, 389, 390, 391, 392, 393, 394, 396, 427 | MEA235 - Perform advanced troubleshooting in aircraft avionic maintenance |
| Module 12.7 Instruments/Avionic Systems | ATA 32 Landing Gear | | MEA294 - Inspect, test and troubleshoot advanced aircraft electrical systems and components |
| Module 12.14 Landing Gear | ATA 33 Lights | 4608-60 Level 3 Diploma in Aviation Maintenance (Development Competence) – Military Unit 354, 355, 367, 368, 369, 370, 371, 372, 373, 374, 375, 389, 390, 391, 392, 393, 394, 396, 427 | MEA295 - Use electrical test equipment to perform basic electrical tests on aircraft and components |
| Module 12.15 Lights | ATA 34 Navigation | | MEA309 - Inspect, test and troubleshoot aircraft hydro-mechanical and landing gear systems and components |
| Module 14.2 Engine Indicating Systems | ATA 35 Oxygen | 4608-60 Level 3 Diploma in Aviation Maintenance (Development Competence) – Military Unit 354, 355, 367, 368, 369, 370, 371, 372, 373, 374, 375, 389, 390, 391, 392, 393, 394, 396, 427 | MEA310 - Inspect, test and troubleshoot aircraft pneumatic systems and components |
| Module 14.3 Starting and Ignition Systems | ATA 77 Engine Indicating Systems | | MEA318 - Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear systems and components |
| Module 51.1 Weapons stores system | ATA 80 Starting | 4608-60 Level 3 Diploma in Aviation Maintenance (Development Competence) – Military Unit 354, 355, 367, 368, 369, 370, 371, 372, 373, 374, 375, 389, 390, 391, 392, 393, 394, 396, 427 | MEA320 - Test and troubleshoot aircraft hydro-mechanical, gaseous and landing gear systems and components |
| Module 53.1 Surveillance | ATA 92 Radar | | MEA345 - Perform scheduled line maintenance activities on gas turbine engine fixed wing aircraft |
| | ATA 93 Surveillance | | |
| | ATA 94 Weapon System | | |
| | ATA 99 Electronic Warfare | | |

Note : VATS provides a synthetic aircraft training environment to assist in developing practical competencies

SUPPLIED DOCUMENTATION

Operators Manual

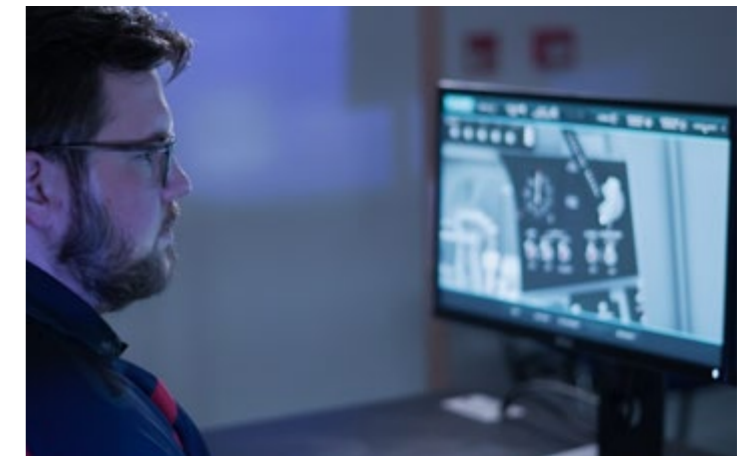
Aircraft Technical Publications

ITMS (LEARNING MANAGEMENT TOOL)

VATS can be used as a self-paced learning aid or Computer Aided Instructions (CAI), being designed to support training methods that may be used to satisfy the theoretical training element in the classroom. As a learning management tool, the application provides the benefits of multiple students working through tasks easily and effectively without requiring the need to wait or have a reduced number of students with one instructor working on physical equipment.

The Integrated Training Management System (ITMS) and Virtual Aircraft Training System (VATS) have been developed and refined over twenty years and is a key element of Pennant's product portfolio. It is maintained and updated to keep pace with advances in technology and capability both in terms of the capabilities of the PC equipment on which is delivered, and the aircraft systems represented in the simulation.

- Training scenario creation
- Planning, delivery and real-time monitoring of training scenarios
- Automatic student assessment and report generation



SUPPORTED TRAINING

| SYSTEM | SIMULATED TASK | SIMULATED FAULTS |
|------------------|---|---|
| AIR CONDITIONING | <ol style="list-style-type: none"> ECS (Environmental Control System) Functional; Cabin Pressurisation Failure Warning; Cabin Pressurisation Test | <ol style="list-style-type: none"> Canopy seal control valve stuck in shut position. Canopy seal will not inflate; Switch stuck in the off position. CWP CPR caption is on; Tear in Canopy seal. Canopy seal does not inflate; Over Pressure Protection switch open circuit; Internal failure. Cabin temperature does not increase; Internal failure. Cabin temperature does not decrease; Internal failure. Cabin temperature does not change; |
| ELECTRICAL POWER | <ol style="list-style-type: none"> Inertia Switch - Reset Procedure; Main Generator Test; Auxillary Generator Test; Internal Electrical Power - Apply and Remove; External Electrical Power Disconnection; External Electrical Power - Connection; External Power Supply System Test | <ol style="list-style-type: none"> Inertia switch has operated; No.1 Battery charge low. No.1 Battery voltage reads less than 20 VDC; No.2 Battery discharged. No.2 Battery reads 0 VDC; Relay coil is open circuit; Terminals A1 and A2 are stuck in closed position. DC Voltmeter still reading voltage; Relay coil will not energise. CWP DC caption remains on; Relay coil open circuit. DC Voltmeter reads 0 VDC; Terminals A1 and A2 are stuck in closed position. DC Voltmeter still reading voltage; Switch contacts stuck in open position. DC Voltmeter reads 0 VDC; No output from TRU. CWP DC caption remains on when generator running; Relay coil open circuit. CWP DC caption remains on; Switch stuck in open position (pin 1 open circuit). DC Voltmeter reads 0 VDC; Switch stuck in open position; Overvoltage condition; Internal failure. Overvoltage condition; Internal failure. Busbar voltages incorrect; Coil open circuit. Main generator line contactor does not energise; |

SUPPORTED TRAINING

| SYSTEM | SIMULATED TASK | SIMULATED FAULTS |
|---------------------------|--|--|
| ELECTRICAL POWER | | <ol style="list-style-type: none"> Relay coil is open circuit. No reading on DC Voltmeter with external power applied; Internal failure. No voltage on AC Busbar; Coil open circuit. APU Line Contactor does not energise; Contacts welded. No voltage on Busbar when APU Generator is running; Internal relay failure. External Power Available relay does not energise; Indicator stuck. Dolls eye remains latched when pressed to reset; Pin 5 stuck at pin 4. Dolls eye indicator does not come on; Pin 8 stuck at pin 7. Dolls eye indicator latched; Relay coil open circuit. Main Generator Ready relay contacts not energizing; Relay coil open circuit. GTS/APU Power Available relay contacts not energizing |
| ENGINE - FUEL AND CONTROL | <ol style="list-style-type: none"> ECA Functional | <ol style="list-style-type: none"> ECA internal failure. Lane No. 1 fault, CWP ECA caption comes on |
| ENGINE - IGNITION | <ol style="list-style-type: none"> Ignition Test | No Faults |
| ENGINE - INDICATING | No Tasks | <ol style="list-style-type: none"> Fluctuating RPM shown on the EMP; Switch pin 1 stuck at pin 2. APU start inhibited; Relay coil open circuit. CWP ECA caption does not come on; Relay coil open circuit. CWP T6NLcaption does not come on |
| ENGINE - STARTING | <ol style="list-style-type: none"> APU Starting and Stopping; APU Functional; APSCU Functional. | <ol style="list-style-type: none"> Relay coil open circuit. Throttle relight switch inoperative; Flame-out causes the engine to run-down; Hung start as engine fails to reach idle RPM the EGT rises but the RPM hangs; Relay coil is open circuit. Throttle relight switch inoperative; Short circuit within APU Starter Motor. EMP GTS caption does not come on. |
| EQUIPMENT AND FURNISHINGS | <ol style="list-style-type: none"> Brake Parachute - Installation; Brake Parachute - Removal. | <ol style="list-style-type: none"> Microswitch open circuit. Parachute stowage compartment access door does not open; Switch contactor stuck at pin 1. Parachute stowage compartment access door does not open; Switch failure, open circuit. Parachute stowage compartment door does not open. |

SUPPORTED TRAINING

| SYSTEM | SIMULATED TASJ | SIMULATED FAULTS |
|-----------------|--|--|
| FIRE PROTECTION | <ol style="list-style-type: none"> Harness - Continuity and Insulation; Engine and APU Bay Fire Detection Test. | <ol style="list-style-type: none"> Firewire element low impedance. Warning captions do not come on in test; Firewire element open circuit. Warning captions do not come on in test; Internal failure in Firewire Control Unit. Warning captions remain on. |
| FIGHT CONTROLS | <ol style="list-style-type: none"> HOTAS Switches Test; Aileron Trim Indicator Test; Yaw Damper Functional; Flap Control System Functional; Flap Standby Lowering System Test and Recovery; Explosive Start Valve Replacement and Standby Lowering System Electrical Circuit Check; Air Brake Test. | <ol style="list-style-type: none"> Internal failure. Open winding failed; actuator does not drive; Pin 1 stuck at pin 3. Switch fails to operate; Pin 3 open circuit. Switch fails to operate; Pin 2 stuck at pin 1. Airbrake remains retracted; Pins K stuck at pin L. Airbrake remains retracted; Pin 3 open circuit. Yaw damper inoperative; Internal failure. The Failure Relay does not energise when the test switch is operated; Internal failure. Rudder PFCU does not centre; Internal failure. Rudder PFCU does not respond to inputs; Internal failure. Valve fails to operate; Switch contacts stuck. Switch fails to operate; Wiper stuck. Aileron position indication remains constant; Internal failure. Pointer stuck at zero; Internal failure. Pointer stuck at zero.; Transmitter open circuit. No position output to the trim indicators; Wiper stuck. Flap position indication remains constant; Internal failure. Coil is open circuit; indicator does not latch. |
| FUEL | <ol style="list-style-type: none"> Fuel Dip Test; Fuel Contents and Low-Level Test; Fuel Flow and Pressure Test; External Fuel Tanks Fuel Flow and Pressure Test; DC Fuel Pump Test. | <ol style="list-style-type: none"> Inoperative. No fuel flow indication; Open circuit within Junction Box. Fuel quantity reads zero; Fuel dip timer internal fault. Engine does not start; Relay coil open circuit. Fuel Dip relay contacts not energising; Switch stuck in the closed position. CWP TRANS caption remains on; Fuel pump wire broken. Low fuel pressure; Pin 2 stuck at pin 1. No fuel transfer to tank; |

SUPPORTED TRAINING

| SYSTEM | SIMULATED TASK | SIMULATED FAULTS |
|------------------------|--|---|
| FUEL | | <ol style="list-style-type: none"> Valve fails open. No fuel transfer; Relay coil open circuit. No refuel fuel flow; Contacts welded in relay energised position; Pressure switch stuck in closed position. CWP AAR caption comes on. |
| HYDRAULIC POWER | <ol style="list-style-type: none"> External Hydraulic Power – Connection; External Hydraulic Power – Disconnection; RAT Test; RAT Extend/Retract Test; Hydraulic Indications and Warnings. | <ol style="list-style-type: none"> No hydraulic pressure from EDP or external supply to all components; Nitrogen Leak; Indicator failure. A constant value of zero is displayed; Front hydraulic indicator reads higher than expected; Microswitch stuck in the open position; Switch contacts stuck in the A to B position; Switch contacts stuck in the D to E position. Audio warning does not come on; Internal failure. No electrical output from the No.1 Hyd Pressure Transducer. |
| ICE & RAIN PROTECTION | <ol style="list-style-type: none"> Pitot/Static Probe Heater Failure Sensor Test. | <ol style="list-style-type: none"> Internal relay contacts stuck in closed position. PITOT CWP caption does not come on; Relay coil open circuit. PITOT CWP caption does not come on; Internal failure of Probe Heater Failure Sensor. |
| INDICATING & RECORDING | <ol style="list-style-type: none"> Crash Protection Functional; CPI (Crash Position Indicator) Functional; FDR Download; AOA Functional; DTU Test; VMRS Test; HUMS Test; Data-bus Test; CWS Functional; Mission Computer (Functional) Test; MFD Functional (Test); HUD Functional. | <ol style="list-style-type: none"> Interface failure. DTU Fail on status page; Internal failure. No display symbology; DAU internal failure. CWP FDR caption comes on; Filaments ruptured. DAU Mem warning indicator does not come on; Internal failure. Cockpit Audio not recorded, CWP CAR caption comes on; Internal failure. Flight Data not recorded, CWP FDR caption comes on; Internal failure. LED pulses 4 times to indicate a fault; Coil Open Circuit; HYD2 bulb is open circuit; Filament ruptured. CWP YAW caption does not come on. |

SUPPORTED TRAINING

| SYSTEM | SIMULATED TASK | SIMULATED FAULTS |
|--------------|---|--|
| LANDING GEAR | <ol style="list-style-type: none"> Landing Gear Functional; Emergency Lowering; Emergency Recovery; Wheel Brake Test; Anti-Skid Test; Nosewheel Steering Test; Landing Gear Down Warning Test. | <ol style="list-style-type: none"> Pin A stuck at pin B. LH down indication extinguished; Pin A stuck at pin B. RH down indication extinguished; Pin D stuck at pin E. NO down indication extinguished; Internal failure (diode fault). Incorrect U/C position indications; No voltage to pin 1. RDU display blank; Open circuit; Proximity switch stuck in open position (open circuit). Alpha numeric failure code displayed on RDU; Internal fault within DCU processor. Alpha numeric failure code displayed on RDU; Feedback transducer open circuit. Alpha numeric failure code displayed on RDU. |
| LIGHTING | <ol style="list-style-type: none"> Exterior Lighting Functional | <ol style="list-style-type: none"> Internal fault. Formation lights do not come on; Internal fault. Fin light does not come on. |
| NAVIGATION | <ol style="list-style-type: none"> ADTS405F – Connection; ADTS405F – Disconnection; P/S Leak Test; P/S Leak Test (No Power); Independent Leak Test; HDFD Test; Air Data Sensor Test; Air Pressure Operated Instruments Test; Standby Heading Test; Standby Compass Test; VOR/ILS Functional; RADALT Functional; Weather RADAR Functional; TAWS Functional; TCAS Functional; TAWS Terrain Database Loading; TACAN Functional; ADF Functional; INGPS Functional. | <ol style="list-style-type: none"> Internal processor fail. BIT Fail; Internal cooling failure; Internal processor fail. BIT Fail.; Internal cooling failure; Internal failure within Altimeter; Circuit breaker open circuit. No power supply to Directional Gyro Unit; Internal fault. INS Power Supply failure; Fault in Gyro Compass alignment; Open circuit; Circuit Breaker internal open circuit; The potentiometer associated with the CAMU output has an internal open circuit; Air data sensor failure. Loss of display information; Temperature probe failure. Incorrect OAT displayed; Internal failure. Returns all data information as invalid; Relay coil is open circuit. Unable to select rear cockpit; Contacts relay stuck in energised state; Internal failure within ADF Receiver. ADF info not displayed on HUD; Internal failure within TACAN Tx/Rx. TACAN info not displayed on HUD; |

SUPPORTED TRAINING

| SYSTEM | SIMULATED TASK | SIMULATED FAULTS |
|---|--|--|
| | | <ol style="list-style-type: none"> Fuse open circuit. RADALT Indicator warning flag remains in view; Switch stuck in open circuit position; Power Up Built-In-Test Fails; Switch stuck in open circuit position; Power Up Built-In-Test (PUBIT) Fails; DTU fails to upload map data to mission computer; Circuit breaker open. No power supply to Wx RDR Power Control Relay; R/T unserviceable resulting in BIT failure; R/T does not transmit RF resulting in BIT failure; Azimuth motor failure; Waveguide damaged resulting in high VSWR on transmission. |
| OXYGEN | <ol style="list-style-type: none"> Standby Oxygen Functional; Standby Oxygen Purge; OBOGS Functional. | <ol style="list-style-type: none"> Relay coil open circuit. Control relay contacts do not energise to operate PRSOV; Relay is open circuit. Oxygen flow indicator fails to latch; Flow transducer internal fail. Oxygen flow indicator fails to latch; Switch open circuit. Back-Up oxygen system fails to operate; Internal fault. Pointer does not indicate content level; Internal fault. Does not convert BOS contents pressure into reading; Oxygen Generator internal fault. CWP OXY caption comes on; Relay coil open circuit. BOS Indication relay contacts do not energise; Relay is open circuit. |
| PARKING, MOORING, STORAGE AND RETURN TO SERVICE | <ol style="list-style-type: none"> Parking. | No Faults. |
| RADAR | <ol style="list-style-type: none"> RSS (Radar Simulation System) Functional. | No Faults. |

SUPPORTED TRAINING

| SYSTEM | SIMULATED TASK | SIMULATED FAULTS |
|---------------------------------|---|------------------|
| SERVICING - ROUTINE MAINTENANCE | <ol style="list-style-type: none"> Electrical Safety - Make the Aircraft Electrically Safe and Restore Aircraft Electrically; Battery On-Load Voltage Test; Failure Indicators - Test Procedure; APU and Engine Pre-Start Checks; Engine Ground Run; Making Armed Aircraft Safe; Canopy - Open and Close; Make Safe For Maintenance; Blanks and Covers – Remove; Blanks and Covers – Install; Landing Gear Ground Locks – Remove; Landing Gear Ground Locks – Install; Ejection Seats and MDC - Safety Conditions; Engine Start/Stop; Engine Wet and Dry Motoring; Electrical Safety - Make the Aircraft Selectively Safe and Close Circuit Breakers/ Refit Fuses; ECATS Test Set – Connect; ECATS Test Set – Remove; Roughness (Vibration) Test Set Type D – Connect; Roughness (Vibration) Test Set Type D – Remove; Engine Operating Limitations; Engine Ground Running; Pressure Refuelling; Defuelling; Gravity Refuelling; Emergency System Accumulator - Check Contents and Replenish; Landing Gear Standby Lowering; Flap Standby Lowering System; No.1 Hydraulic System Accumulator - Check Pressure and Replenish; No.2 Hydraulic System Accumulator - Check Pressure and Replenish; Wheel Brake Accumulator - Check Pressure and Replenish; | No Faults. |

SUPPORTED TRAINING

| SYSTEM | SIMULATED TASK | SIMULATED FAULTS |
|---------------------------------|---|--|
| SERVICING - ROUTINE MAINTENANCE | <ol style="list-style-type: none"> Hydraulic System Reservoirs - Check Contents & Pressures and Replenish; Brake Master Cylinders Reservoir – Replenish; Engine Oil - Check Contents and Replenish; Auxiliary Power Unit Oil - Check Contents and Replenish; Main Generator Cooling System Oil; Backup Oxygen System - Check Contents and Replenish; Emergency Oxygen System - Check Contents and Replenish; Tyre - Check Pressure and Inflate; Nose Undercarriage Unit - Check Pressure/ Extension and Replenish. | |
| SURVEILLANCE | <ol style="list-style-type: none"> IFF Functional | <ol style="list-style-type: none"> Internal fault. Mode 2 interrogation fails; Internal failure. Mode 3A test fails; Internal switch failure, constant output from pin 2. Incorrect Mode 2 Emerg test code; Internal switch failure, constant output from pin 2. Incorrect Mode 2 Emerg test code. |
| TACTICAL COMMUNICATIONS | <ol style="list-style-type: none"> Radio 1 Test | <ol style="list-style-type: none"> Faulty Rotactor. Scratchpad not displayed; Internal coil failure. Command does not transfer; Internal SRC Panel failure. RT Fault displayed; Internal failure. Degraded flag on the MFD/Standby Controller when the Radio runs an IBIT; Internal failure. Failure flag on the MFD/ Standby Controller when the Radio runs an IBIT; Internal failure. Fails IBIT; Internal failure. Fails IBIT. |
| WEAPONS SYSTEMS | <ol style="list-style-type: none"> SMS IBIT; SMS Assisted BIT; WIP (Weapons Insertion Panel) Code. | <ol style="list-style-type: none"> Internal power supply fault. BIT fail indication passed to the mission computers; VCR Dew present (condensation present within the VCR); VCR fail (internal VCR fault); Switch remains in the open position. |



OPTIONAL ACCESSORIES

Pennant will be happy to provide support services to assist with installation on End User equipment or to provision, install and commission appropriate PC equipment at the End User site.

ORDERING INFORMATION

99100-000-0001A | Virtual Aircraft Training System



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