

# Generic Stores Loading Training (GSLT)



# Introduction

The Generic Stores Loading Trainer (GSLT) is a generic part task trainer designed to train students in carrying out procedures for loading and unloading weapons in a safe environment. The GSLT comprises a fixed wing installation on the one side of the trainer and a rotary wing installation on the other.

The fixed wing is presented to the student at a realistic height and size to provide operational realism and hazards. The wing may be fitted with two pylons to which missiles and bombs may be loaded and tested.

The rotary wing installation has a carrier to which depth charges, missiles and torpedoes may be loaded and tested. A Countermeasures and Defensive Aids System (CMDS) is included and may be loaded with Chaff and Flare.

Animated schematics allow the student to observe the weapon system control circuits, whilst an Instructors console enables scenarios to be set, faults to be injected and the students' progress monitored.



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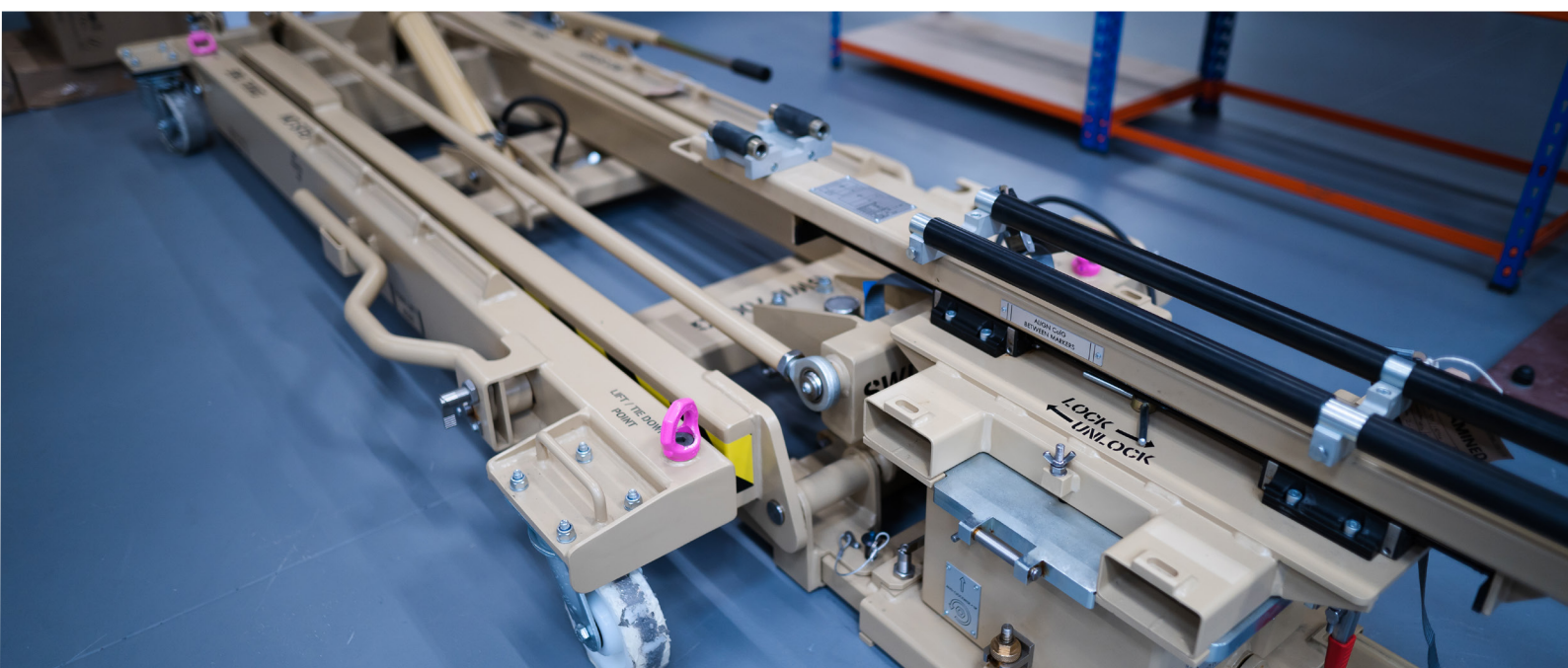
Contact: [sales@pennantplc.co.uk](mailto:sales@pennantplc.co.uk)





# Key Features

- Fixed wing installation:
  - Load and Unload missiles and bombs;
  - Remove and Install pylons;
  - Remove and Install launchers;
  - Remove and Install Ejector Release Unit (ERU).
- Rotary wing installation:
  - Load and Unload Missiles, Depth charges and Torpedoes;
  - Remove and Install Electromechanical Release Unit (EMRU);
  - Load and Unload Chaff and Flare.
- Dummy Weapons (Supplied):
  - Air to Air Missile (AAM);
  - Air to Ground Missile (AGM);
  - Laser Guided Bomb (LGB);
  - Torpedo;
  - Depth Charge.
- General:
  - Safe handling procedures;
  - No Volts Checks;
  - Instructors console for scenario setting and injection of faults;
  - Animated schematics for observation of weapon system control circuits;
  - Supplied with test equipment and Ground Support Equipment (GSE);
  - Supplied Technical Publications.





# Aviation Regulations Alignment

EASA/EMAR PT 66	FAA	CITY & GUILDS	CASA MEA UNITS
<p><b>Module 50.1</b> Essential principles of Armament (a) Propellants and explosives; Stores loading / unloading (to include chaff and flares) including hang-up and misfire; Air-to-air missile; Air-to-ground missile; Aerial torpedo; Bomb (guided); Weapon suspension system;</p> <p><b>Module 51.1</b> Weapons stores system            (a) Weapon and stores release, fire and jettison stores; Weapon suspension system; Interconnecting equipment to transport and release/fire weapons;</p>	N/A	<p><b>2675-03</b> Level 3 Diploma in Aircraft Maintenance (a) Unit 111 Working safely with aircraft armament systems</p> <p><b>4608-60</b> Level 3 Diploma in Aviation Maintenance (Weapons Maintenance)</p> <p><b>(a) Unit 427</b> Testing installed aircraft armament systems and role equipment</p> <p><b>(b) Unit 429</b> Undertaking fault diagnosis on installed aircraft armament systems and role equipment</p> <p><b>(c) Unit 433</b> Removing aircraft armament system components and role equipment</p> <p><b>(d) Unit 435</b> Removing aircraft expendable stores</p> <p><b>(e) Unit 437</b> Installing aircraft armament system components and role equipment</p> <p><b>(f) Unit 439</b> Installing aircraft expendable stores</p>	<p><b>MEA 602</b> Remove and Install Aircraft Stores Management System Components</p> <p><b>MEA 603</b> Remove and Install Aircraft Stores Suspension System Components</p> <p><b>MEA 604</b> Inspect, Test and Troubleshoot Aircraft Stores Management Systems and Components</p> <p><b>MEA 605</b> Inspect, Test and Troubleshoot Aircraft Stores Suspension Systems and Components</p>





# Environmental Specifications

PARTICULAR	VALUE	UNIT
Temperature Range (Operational)	+5°C to +40°C	°C
Humidity (Operational)	60% (Maximum Non-Condensing) <sup>Note 1</sup>	RH
Temperature Range (Non-Operational)	-25°C to +55°C <sup>Note 2</sup>	°C
Humidity (Non-Operational)	85% (Maximum Non-Condensing) <sup>Note 1</sup>	RH
Noise	65	dBA

**Note 1** : Harmful effects of occasional condensation shall be avoided by additional measures within the facility.

**Note 2** : Short periods not exceeding 24 h at up to +70°C.

# Physical Specifications

PARTICULAR	VALUE	UNIT
Length	4903	mm
Width	4665	mm
Height	2025	mm
Weight	1500	Kg





# Supported Training

SYSTEM	PRACTICAL TASK	SIMULATED FAULTS
<b>FIXED WING</b>	<ol style="list-style-type: none"> <li>1. Pylon (Inboard) Remove &amp; Install;</li> <li>2. Pylon (Outboard) Remove &amp; Install;</li> <li>3. Ejector Release Unit (ERU) (Inboard) Remove &amp; Install;</li> <li>4. ERU (Outboard) Remove &amp; Install;</li> <li>5. AAM Launcher Remove &amp; Install;</li> <li>6. AGM Launcher Remove &amp; Install;</li> <li>7. LGB Load &amp; Un-Load;</li> <li>8. AGM Load &amp; Un-Load;</li> <li>9. AAM Load &amp; Un-Load;</li> <li>10. AAM Built in Test (BIT);</li> <li>11. AGM Built in Test (BIT);</li> <li>12. Fixed Wing Pylon Test;</li> <li>13. ERU No Volts Test;</li> <li>14. AAM No Volts Test;</li> <li>15. AGM No Volts Test;</li> <li>16. Stores Management System (SMS) operated Assisted BIT;</li> <li>17. SMS Weapon Insertion Panel (WIP) Data Load.</li> </ol>	<ol style="list-style-type: none"> <li>1. ERU switch stuck (Open) (Inboard);</li> <li>2. ERU switch stuck (Closed) (Inboard);</li> <li>3. ERU switch stuck (Open) (Outboard);</li> <li>4. ERU switch stuck (Closed) Outboard;</li> <li>5. Armament Junction Box Spurious voltage (Inboard);</li> <li>6. Armament Junction Box Spurious voltage (Outboard)</li> <li>7. Stores Management Processor (SMP) Bit failure;</li> <li>8. Weapon Control Panel (WCP) MASTER ARMAMENT SAFETY SWITCH (MASS) stuck open;</li> <li>9. WCP MASS - switch stuck closed;</li> <li>10. MASS Switch internal failure (SMP shut down);</li> <li>11. MASS switch internal failure (Busbars not energised);</li> <li>12. Emergency Jettison Switch – Switch stuck open;</li> <li>13. AAM – Open circuit;</li> <li>14. AAM – Bit degraded;</li> <li>15. AAM – Bit failed;</li> <li>16. AGM – Open circuit;</li> <li>17. AGM – Bit degraded;</li> <li>18. AGM – Bit failed.</li> </ol>
<b>ROTARY WING</b>	<ol style="list-style-type: none"> <li>1. Electromagnetic Release Unit (EMRU) Remove &amp; Install;</li> <li>2. AGM Launcher Remove and Install;</li> <li>3. CMDS Chaff Load &amp; Un-Load;</li> <li>4. CMDS Flare Load &amp; Un-Load;</li> <li>5. CMDS Combined Chaff and Flare Load &amp; Un-Load;</li> <li>6. Depth Charge Load &amp; Un-Load;</li> <li>7. Torpedo Load &amp; Un-Load;</li> <li>8. AGM Built in Test;</li> <li>9. CMDS No Volts Test;</li> <li>10. AGM No Volts Test;</li> <li>11. SMS Test.</li> </ol>	<ol style="list-style-type: none"> <li>1. AGM – Open Circuit;</li> <li>2. AGM – Bit degraded;</li> <li>3. AGM – Bit failed.</li> </ol>



# Supplied Documentation

Operation Manual

Maintenance Manual

Student Manual (Technical Publications)

# Optional Accessories

Spares Kit

# Ordering Information

98610-000-0001A

GSLT

98610-3021

Spares Pack



