



# Generic Fastener Installation Trainer

# Introduction

The Generic Fastener Installation Trainer (GFIT) provides each student with the initial cognitive and manipulative skills required for accurate hardware assembly. Each GFIT task aligns with several National training curricula. This holistic approach to training ensures that students receive the best possible initial training experience.

Designed with both the learner and education provider in mind, the GFIT mechanical trainer is extremely portable and cost-effective, requiring only a limited selection of hand tools and a bench vice.

Although primarily designed for the aviation industry, the GFIT can be easily adapted to suit any industry that provides training in simple manufacture and hardware assembly.



[www.pennantplc.com](http://www.pennantplc.com)

Contact: [sales@pennantplc.com](mailto:sales@pennantplc.com)



# Key Features

- Fastener Identification and Operation
- Determination of fits and clearances
- Progressive / Pattern / torqueing
- Prevailing torque measurement / application
- Lock tab installation
- Application of chemical locking compounds
- Split pinning (cotter pin installation)
- Assembly of all-metal and low temperature lock nuts
- Assembly and locking of an electrical connector
- Single strand locking of black box screws
- Figure 8 safetying with lockwire of MS engine bolts
- Safetying with double strand lockwire of AN type bolts
- Fitment of AN type tube nuts and rigid plumbing
- Covers knowledge and learning tasks involved with the following standards & qualifications:  
EASA/EMAR PT66, FAA, City & Guilds and MEA Units



# Physical Specifications

PARTICULAR	VALUE	UNIT
Length	250	mm
Width	108	mm
Height	250	mm
Weight	4	Kg

# Supplied Documentation

Operation & Maintenance Manual
Student Manual (Technical Publications)

# Aviation Regulations Alignment

EASA/EMAR PT 66	FAA	CITY & GUILDS	MEA UNIT
<b>Module 6 Materials and hardware:</b> 6.5 Fasteners: 6.6 Pipes and unions: 6.11 Electrical Cables & Connectors  <b>Module 7 Maintenance practices:</b> 7.1 Safety precautions aircraft and workshop 7.2 Workshop practices 7.3 Tools 7.20 Maintenance procedures  <b>Module 10 Aviation legislation:</b> 10.7 Applicable national and international requirements	<b>FAA 14 CFR Parts 65 &amp; 147 Appendix B Topics E2, E4 &amp; E5</b> Aircraft hardware, Safety wire & Torque  <b>ATA 51 Standard Practices &amp; Structures:</b> 00 General 30 Materials 40 Fasteners  <b>FAA-H-8083-30A Chap 7</b> Aircraft Materials, Hardware, and Processes	<b>2675-03 Unit 204</b> Structural materials and components in aircraft  <b>2675-04 Unit 001</b> (Torque loading of components)  <b>2675-04 Unit 004</b> (Torque loading and torque calibration tools)  <b>2675-05 Unit 204</b> Structural materials and components in aircraft  <b>2675-05 Unit 205</b> (Torque loading and torque calibration tools)  <b>4608-60 Unit 356, 357, 359, 361, 362, 364, 382, 383 &amp; 384</b>  Removing and replacing components in aircraft systems  <b>4608-60 Unit 413 thru 422</b> (tightening fastenings to the required torque) & (applying locking and retaining devices)	<b>MEA158:</b> Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance

# Supported Training

Practical Tasks	Rectangle Plate fabrication (optional)
GFIT assembly	Circular Plate Installation
Electrical connector fitting and locking	Circular Plate fabrication (optional)
Rectangle Plate Installation	

# Ordering Information

80500-0001A	Generic Fastener Installation Trainer (Imperial)
80501-0001A	Generic Fastener Installation Trainer (Metric)



