

# Publications and Training Solutions

## Course Syllabus: 523-0808521

**COURSE TITLE:** Heads-Up Guidance System (HGS-4000)  
Operator/Pilot Training

**PREREQUISITES:** Students should have a basic knowledge of aircraft avionics systems and a working command of the English language. Students should be familiar with MS Windows® based Operating Systems.

**PURPOSE:** This course provides training to operate the Heads-Up Guidance System (HGS-4000).

**OBJECTIVES:** Upon completing this course, the student will be able to:

1. Identify the components of the HGS-4000.
2. Identify symbology when operating the HGS-4000 system in primary mode.
3. Identify symbology associated with Visual Meteorological Conditions (VMC), Instrument Meteorological Conditions (IMC), and Approach III (AIII) operation modes.
4. Identify the HGS-4000 system non-normal symbology.

**COURSE LENGTH:** Approximately 3 Hours 30 Minutes

**REFERENCES:**

- |  |             |
|--|-------------|
| 1. HGS-4000 Head-Up Guidance System with HCP Interface for Boeing 737 Pilot Guide  | 523-0809588 |
| 2. HGS-4000 Head-Up Guidance System with MCDU Interface for Boeing 737 Pilot Guide | 523-0809619 |

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### COURSE OUTLINE

#### **0. Operational Overview**

- A. System Description
- B. Combiner
- C. Modes of Operation
- D. HGS Control Units

#### **1. Primary Mode Symbology**

- A. Horizon Line
- B. Roll Scale and Pointer
- C. Heading, Drift, Vertical Speed and Altimeter
- D. Flight Director Guidance Cue
- E. Flight Path Acceleration
- F. Specialized Low Visibility

#### **2. Modes of Operation**

- A. Overview
- B. Visual Meteorological Conditions (VMC)
- C. Instrument Meteorological Conditions (IMC)
- D. Approach III (AIII)

#### **3. Other Functionality**

- A. Pitch Scale Compression
- B. Unusual Attitude Mode
- C. Traffic Collision Avoidance System (TCAS) Resolution Advisories
- D. Windshear Warning
- E. Tailstrike Warning

#### **4. Survey**

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**EQUIPMENT TYPE:**

<b>EQUIPMENT</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
HGS Combiner	CMB-4000	1500-2310-001
HGS Computer	HGS-4000	1500-2460-002/-003/-004
HGS Annunciator Panel	HAP-4000	1500-2430-001
HGS Control Panel	HCP-2300	1500-0500-002
HGS Overhead Unit	OHU-4000	1500-2360-001