

# MIL-STD-1553 SEMINAR

## MIL-STD-1773 AFTERNOON SEMINAR

In-Person in Phoenix or On-Line via ZOOM

Presented by TEST SYSTEMS, Inc.

April 15, 16 & 17, 2024

The MIL-STD-1553 data bus is presently used in many advanced military programs and is also used to update systems in older programs. The applications are expanding rapidly requiring more trained engineers to deal effectively with the technology.

The Seminar presents a thorough discussion of MIL-STD-1553 theory, application and testing. Problem areas in the standard are clarified and available options are examined. Two lab sessions illustrate the material being taught by providing students with experience in identifying 1553 communication and trouble-shooting remote terminal problems.

Leroy Earhart, the instructor, has over 40 years of experience in the design and development of multiplex equipment for data bus applications. In the Seminar, Mr. Earhart uses a well-rounded approach of lecture, lab sessions, visuals, notes, question and answer, and samples from 1553 manufacturers to communicate concepts in a clear and dynamic manner. He provides personal assistance during the lab sessions.

The 1553 Seminar notebook contains over 130 pages of class notes, MIL-STD-1553 and information on 1553 testing. Vendor literature on 1553 related products is also made available.

### 1553 SEMINAR OUTLINE

#### FIRST DAY

- I Intro to Multiplexing & MIL-STD-1553
- II Definitions, Encoding & Formats  
*Afternoon - Lab Session 1*

#### SECOND DAY

- III Protocol
- IV Terminal Operation
- V Hardware Characteristics
- VI Hardware Design  
*Afternoon - Lab Session 2*

#### THIRD DAY MORNING

- VII System Design
- VIII Software Design
- IX Philosophy of Testing & Phases of Testing

#### THIRD DAY AFTERNOON

- X Test Requirements
- XI Test Equipment: Requirements & Overview

Class Hours: 8:00 AM - 4:00 PM

### REGISTRATION FEE

1553 Seminar - **\$1,939.00** per person  
1773 Seminar - **\$329.00** per person

### MIL-STD-1773 AFTERNOON SEMINAR

MIL-STD-1773 is the fiber optic version of MIL-STD-1553. Although it has been little used in the past, 1773 applications are currently increasing, especially in areas where protection from electromagnetic interference is necessary.

The MIL-STD-1773 Afternoon Seminar is offered on the first afternoon of the 1553 Seminar. **An understanding of MIL-STD-1553 is prerequisite.**

The Seminar is designed to provide an understanding of the requirements of MIL-STD-1773. Problem areas associated with fiber optic transmission are examined and discussed.

### 1773 SEMINAR OUTLINE

- I Introduction to MIL-STD-1773
- II Media Components
- III Media Design
- IV System Testing & Diagnostics
- V Media Install Considerations
- VI Radiation Effects
- VII 1773 Enhancements

Class Hours: 4:00 PM - 6:30 PM  
Monday, April 15, 2024

## REGISTRATION FORM

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- On-Line via ZOOM

Presented by TEST SYSTEMS, Inc. • 602-861-1010 • info@testsystems.com • Phoenix, AZ • April 15, 16 & 17, 2024

NAME \_\_\_\_\_ TITLE \_\_\_\_\_

COMPANY \_\_\_\_\_ M/S \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TELEPHONE \_\_\_\_\_ EXT \_\_\_\_\_ EMAIL \_\_\_\_\_

Mail registration form and fee to: TEST SYSTEMS, Inc. • 217 West Palmdale Ave. • Phoenix, AZ 85021

Or email your completed registration form and call to pay by credit card (VISA or MasterCard).