

MIL-STD-1553 SEMINAR

MIL-STD-1773 AFTERNOON SEMINAR

In-Person in Phoenix or On-Line via ZOOM

Presented by TEST SYSTEMS, Inc.

October 20, 21 & 22, 2025

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 designing and developing multiplex equipment for data bus applications. In the Seminar, Mr. Earhart uses a well-rounded approach of lectures, lab sessions, visuals, notes, question and answer, and samples from 1553 manufacturers to communicate concepts clearly and dynamically. 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 - **\$1,979.00** per person
1773 Seminar - **\$339.00** 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 those 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 a 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.

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, October 20, 2025

REGISTRATION FORM

- MIL-STD-1553 SEMINAR
 MIL-STD-1773 SEMINAR

- In-Person in Phoenix
 On-Line via ZOOM

Presented by TEST SYSTEMS, Inc. • 602-861-1010 • info@testsystems.com • Phoenix, AZ • October 20, 21 & 22, 2025

NAME _____ TITLE _____

COMPANY _____ M/S _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

TELEPHONE _____ EXT _____ EMAIL _____

Mail registration form and fee to: TEST SYSTEMS, Inc. • 217 West Palmar Ave. • Phoenix, AZ 85021
Or email your completed registration form and call to pay by credit card (VISA or MasterCard).