TestStand I

The course teaches how to navigate the TestStand environment and create test applications. It prepares you to use existing TestStand features and best practices to create and deploy test sequences as a complete test system.

*Duration:* 3 days on site or 4 half days virtual

**Main topics:**

- Introduction to TestStand: purpose and goals of the course, benefit of using TestStand

- Creating Test Sequences.

    o Developing Test Code

    o Creating a New Test Sequence

    o Adding Steps to a Test Sequence

    o Creating and Calling Code Modules

    o Creating Test Steps

    o Executing a Test Sequence

- Debug TestStand Execution

    o Tracing Execution

    o Pausing Execution with Breakpoints

    o Handling Execution Errors

    o Modifying Execution to Locate a Problem

    o Troubleshooting Code Modules

- Troubleshooting Test Sequences

    o Sharing Data Using Local Variables

    o Changing Execution Flow

    o Changing Execution Based on a Test Failure

- Reusing Code in a Sequence

    o Reusing a Series of Steps

    o Storing Configuration Settings

    o Reusing Data

    o Reusing Test Sequences with Different Limits

- Storing and Logging Test Results

- Generating a Report
- Collecting Results
- Customizing Report Appearance
- Customizing Report Contents
- Generating Multiple Reports
- Database Logging

- Executing a Test Sequence for Multiple UUTs
  - Using the Test UUTs Execution Entry Point
  - Customizing Serial Number Entry
  - Executing Steps When the Sequence File Loads

- Executing Tests in Parallel
  - Configuring Steps to Run Asynchronously
  - Executing Tests in Parallel
  - Synchronizing Execution of Parallel Steps

- Deploying a Test Sequence
  - Selecting Components for Deployment
  - Choosing a Deployment Method
  - Ensuring Successful Deployment