

visualATE 7.x Programming Training Pre-Course

ASL Series eLearning Syllabus
Course # 0252e



Automotive



Mobility



IoT/IoV & Optoelectronics



Computing & Network



Industrial & Medical



Consumer

Course Description

This eLearning material introduces the student to the ASLx and ASL1000 test systems and to visualATE 7.x, the operating software used to control test operations on ASL series testers. The ASLx and ASL1000 training material provide an overview of the hardware components and capabilities for the test systems. The student will take the course using their relevant test system; either the ASLx or the ASL1000.

The visualATE 7.x training material describes the software components and structure of the programming environment and shows how to create test programs.

Training is accomplished by a combination of multimedia presentations and interactive software demonstrations.

Course Outline

- ASLx Overview
- ASL1000 Overview
- Software Overview
- Test Program Files
- Online Help

Course Length

- Self-paced - 2 to 3 hours typical depending on skill level

Prerequisites

- Three months test program experience

Recommended

- C or C++ programming
- Familiarity with Windows Operating Systems
- English - written and spoken

- Multisite capability resulting in higher throughput
- Air cooled architecture and instruments
- 20 instrument slot configuration
- Compact low power technology

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Course Outline

The visualATE 7.x Program Pre-Course provides the student with descriptions of the ASL line testers and visualATE7.x, the software tool used to control the tester.

The course is comprised of five parts. The typical time to complete the course is between two and three hours, depending on prior knowledge and experience.

At the end of each module the student is required to pass a test, achieving a score of 75% or more. Additionally, there is a pre-test and a final test (the pre and final tests questions are tailored to include only the desired tester questions rather than both).

The student is encouraged to take notes throughout the course and repeat or pause the presentation as needed.

Course Modules

1 - ASLx

This part of the course describes the ASLx tester in two modules. The first module describes the hardware components of ASLx Test System and supported instruments. The second module describes the Testhead components and capabilities, Loadboard connections, and required calibration hardware.

On completion of this part of the course the student will be able to:

- Demonstrate a working knowledge of the hardware components of the ASLx Test System
- Be able to identify instruments supported by the ASLx
- Understand the Testhead and Loadboard configurations and be able to identify the hardware required for calibration

This part of the course is required for users of the ASLx Test System. Users of the ASL1000 Test System do not need to take this part of the course.

2 - ASL1000

This part of the course describes the ASL1000 tester in two modules. The first module describes the hardware components of ASL1000 Test System and supported instruments. The second module describes the Testhead components and capabilities, Loadboard connections, and required calibration hardware.

On completion of this part, the student will be able to:

- Demonstrate a working knowledge of the hardware components of the ASL1000
- Be able to identify instruments supported by the ASL1000
- Understand the Testhead and Loadboard configurations and be able to identify the hardware required for calibration

This part of the course is required for users of the ASL1000 Test System. Users of the ASLx Test System do not need to take this part of the course.

3 - Software Overview

This part of the course provides an overview of the visualATE software, the operating software used to control basic test operations on ASL series Test Systems.

There are two modules. The first module provides an overview of the visualATE user interface while the second module describes the visualATE Test Solution components.

On completion of this part of the course, the student will be able to:

- Launch the visualATE user interface
- Understand the visualATE user modes
- Launch visualATE in Debug Mode
- Understand the test solution directory structure
- Be able to describe the components of a complete Test Solution

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Course Modules (cont.)

4 - Test Program Files

This part of the course shows how to create a test program using the visualATE 7.x software. There are five modules. On completion of this part of the course, the student will be able to explain the purposes and use of:

- Hardware Configuration Files
- Resource Map Files
- Bin Map Files

The student will also know how to:

- Create Test Functions, and
- Create a Test Program

5 - Online Help

This part of the course describes the visualATE 7.x online help. This is a single module that shows how to launch, navigate, and search the visualATE online help material. On completion, the user will know how to use the online help to access and use the HTML help and the API help.

Related Courses

- visualATE7 Applications Programming course
- ASLx Maintenance
- ASL1000 Maintenance
- visualATE DDP Applications Course

Course Viewing Requirements

To view the course, you must have:

- A browser supporting HTML5
- Audio-listening capabilities (such as a headset or speakers)
- Connection speed of at least 600 kbps