

Keysight Technologies

Introduction to Keysight VEE Pro

Course Numbers:
Keysight Training Center: H7218A-200
Onsite Training: H7218B-200

Course Overview

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Learn to automate your testing with Keysight Technologies' Visual Engineering Environment programming language (Keysight VEE Pro). Understand the fundamentals of Keysight VEE Pro software: develop, debug, and maintain Keysight VEE Pro programs. Build programs that collect data from instruments and analyze/display data. Build a simple operator interface.

What you will learn

- Create test programs using Keysight VEE Pro software
- Learn graphical programming fundamentals and recommended graphical design practices
- Learn hands-on instrument control techniques, including direct I/O with standard commands for Programmable Instruments (SCPI), Plug&Play, and IVI-COM drivers
- Control complex test execution with the VEE Sequencer Object

Course Type

User/Application Training

Audience

Scientists, engineers and technicians who need to automate measurements and analyze data.

Prerequisites

Introduction to Keysight VEE Pro does not require programming experience, but prior experience in any programming language may enhance the student's ability to understand the concepts presented. A working knowledge of MS Windows is also useful in this course.

Course Length

3.5 days

Course Format

40% lecture and 60% lab

Delivery Method

Scheduled at Keysight training centers, or on-site at customer location.

Create problem-solving models and develop better test programs faster.

Detailed Course Agenda

Day 1

- Introduction to Keysight VEE Pro
- VEE Pro fundamentals
- Displaying, processing, and analyzing data

Day 2

- Controlling instruments
- VEE's Instrument Manager
- Instrument Control Objects
- Configuring Instruments
- Programmatic Instrument Properties
- Debugging; optimal instrument programming practices
- Selecting an instrument programming interface (driver type)
- UserObjects, ThreadObjects & UserFunctions

Day 3

- Operator interfaces
- Storing and retrieving data to/from VEE Integrated Microsoft Excel Support
- VEE Integrated Database Support
- Records and datasets

Day 4

- Controlling test execution with the VEE Sequencer Object
- Using NET Framework objects from the System Menu
- Advanced Topics Preview (ActiveX, Web monitoring & VEE Integrated MATLAB Support)