



VEE Update/Database Topics

Course Overview

Course Number: H7218X-100

Learn about the new features in VEE Pro 9.2 and how the new integrated database support can help manage and draw conclusions from your test data.

Course Overview

This course will present detailed instruction, explanation and training for advanced programming of the current version of VEE Pro with a focus on database utilization.

What you will learn

- What's new in VEE Pro 9.2
- Fundamentals of database technology
- Accessing databases from VEE
- Mapping VEE data into database-specific types
- Querying the database from VEE

Specifications

Course Type

User/Application Training

Audience

The advanced course is designed for scientists, engineers and programmers.

Prerequisites

Students must have taken "Introduction to VEE Pro" or have at least six months experience in VEE Pro program development.

Course Length

Two days

Course Format

50% Lecture; 50% Labs

Delivery Method

Scheduled

(at Agilent training locations) or

Dedicated

(at customer site)
To save you time and travel, many Agilent courses can be delivered at your site. Agilent can provide required equipment, or save money by furnishing your own.

Detailed Course Agenda

Day 1 Introduction

New Features in VEE

- Multi-threading programming and it's advantages
- Programmatic Instrument Properties
- Operator Interface – Programmatic properties

Database Fundamentals -

- Who uses databases?
- Why use databases in test and measurement?
- Database Structures
 - Data Tables
 - Data Records
 - Record Sets
- Data Types
- Primary Keys & Relationships
- Database Providers and Connection Strings
- Database Creation
- SQL - Structured Query Language
- ADO.Net
- Lab 1 - Create a database



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VEE Database Library -

- Opening the Database
- Adding Tables
- Writing and Reading for the Database
- Updating the Database
- Lab 2 – Populate the database
- Common SQL Commands
- DataSet Navigation
- Enumerations in a Dataset
- Modifying Rows in a Data Table
- Lab 3 – Manipulating the database

Day 2

Advanced Database Techniques -

- More SQL - Sorting and Searching
- Data Grid and Data Grid View
- Table and Row Conversions
- Database access from Excel
- Lab 4 – Retrieving data from the database
- SQL Scripts
- Stored Procedures
- Error handling
- Lab 5 – Calling stored procedures

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