

DIAdem Advanced Course

Overview

This course teaches you how to automate common tasks in the DIAdem panels with DIAdem's standard VBScript commands. You will also learn how to customize the DIAdem environment by creating user-defined dialog boxes, user commands and custom menus which enable you to use DIAdem as the basis for complex applications.

Duration

Two (2) Days

Audience

- New DIAdem users who have taken the DIAdem Basics Course
- DIAdem users who want to learn how to programmatically control DIAdem
- Integrators who are tasked with developing technical data management solutions

Prerequisites

- DIAdem Basics or equivalent experience

NI Products Used During the Course

- DIAdem

After attending this course, you will be able to:

- Automate DIAdem using VBScript
- Use the Calculator to perform complex arithmetic expressions
- Use standard dialog boxes
- Design user-defined dialog boxes
- Create user-defined variables and commands
- Control the script sequence
- Define functions and procedures
- Optimize and structure scripts
- Programmatically handle files
- Import data with SQL queries in VBScript

Registration

Register online at ni.com/training or call (800)433-3488 Fax: (512)683-9300
info@ni.com

Outside North America, contact your local NI Office.
Worldwide Contact Info: ni.com/global

Part Number

910618-xx

- 01 NI Corporate or Branch
- 11 Regional
- 21 Onsite (at your facility)

DIAdem Advanced Course

The Calculator

In this lesson you will learn how to use the Calculator to analyze data with your own formulas. Topics include:

- Working with the Calculator
- Using operands, operations, and variables

Introduction to DIAdem SCRIPT

This lesson explains the functions and procedures you use to write a script. Topics include:

- Introduction to automating processes
- Learning the DIAdem SCRIPT functions
- Understanding the script structure
- Learning about the script syntax

Creating and Editing Scripts

This lesson introduces the technique of creating a script with the recording mode and learning techniques to edit the script to customize the behavior. Topics include:

- Creating a script
- Starting and stopping a script
- Integrating a script in the DIAdem interface
- Using tools that help you to create scripts

Customized User Interface

In this lesson you will learn how to create dialog boxes to set function parameters, to specify settings, to select properties, and to enter data. Topics include:

- Understanding the components of the Scriptable User Dialog Editor
- Using user dialog boxes in scripts

Script Variables

In this lesson you will learn about the different types of variables in DIAdem, their value ranges, and the environments in which you use them. Topics include:

- Using DIAdem variables
- Learning how to create and use user-defined variables
- Understanding dynamic enumeration list variables
- Using VBS variables

The VBS Functionality

In this lesson you will learn the most important aspects of the VBS functionality. Topics include:

- Understanding data types
- Using variables and constants
- Understanding operators
- Learning about condition instructions
- Using loops to incorporate repetition
- Working with objects
- Handling errors
- Understanding the differences between DIAdem commands and VBS commands
- Using VBS in User Dialog Boxes
- Accessing databases

Creating DataPlugins

In this lesson you will learn how to program a DataPlugin using VBScript to load your own data format into DIAdem. With DataPlugins you can also connect your data files to the Datafinder and by that extend the data mining capabilities in DIAdem to your own data format. You will understand how to import existing DataPlugins or export your own DataPlugin for other users and computers. Topics include:

- Understanding the object-oriented structure of DataPlugins
- Programming DataPlugin for binary and ASCII data
- Import and export DataPlugins

Searching and Finding Data

In this lesson you will learn how to use the Quick search and the Advanced search in scripts. You can search in data files, channel groups or channels using the DataFinder. If you want the user to interact manually you can use the user interface in DIAdem NAVIGATOR. You will learn about the objects, methods and properties available in DIAdem NAVIGATOR. Topics include:

- Understanding the object-oriented scripting interface of DIAdem NAVIGATOR
- Searching with and without the NAVIGATOR user interface