

Exploring Data Interactively Using DIAdem Course Overview

3 Days

DURATION

10

MODULES

48

TOPICS

910616-11 | 910616-69 |

910616-71

COURSE CODE

COURSE OVERVIEW

The Exploring Data Interactively Using DIAdem course teaches you how to use the most important analysis, reporting, and data management features of the DIAdem environment.

WHO THIS COURSE IS FOR

- New DIAdem users
- Users and technical managers evaluating DIAdem in purchasing decisions
- Users needing to display, analyze and produce reports for large amounts of test data

PREREQUISITES

- Experience using Windows; programming experience is helpful, but not essential
- If you take the course On-Demand:
 - DIAdem Professional Edition 2021
 - NI-DAQmx 21.0 or later
- If you take the course in an instructor-led format:
 - DIAdem Professional Edition 2021
 - NI-DAQmx 21.0 or later

LEARNING OBJECTIVES

What You Will Learn

- Find the data you want to import using simple search terms and conditions
- Import ASCII files and load technical data management (TDM) files
- View and graphically investigate loaded data
- Execute channel-based calculations on loaded data
- Create reports to present the data, including graphs and tables
- Use DIAdem SCRIPT to automate the above steps
- Complete the most common tasks performed in DIAdem

COURSE SYLLABUS

10 Modules, 48 Topics

01

Introduction to DIAdem

TOPICS

- Use DIAdem for creating automated reports.
- Overview of DIAdem
- Main Components of DIAdem

02

Managing Data

TOPICS

- Learn how to use DIAdem NAVIGATOR to search and load data.
- Exploring DIAdem NAVIGATOR
- Finding External Data with DIAdem NAVIGATOR
- Managing Internal Data in the Data Portal

03

Viewing Data

TOPICS

- Learn how to use DIAdem VIEW to interactively inspect data.
- Exploring DIAdem VIEW
- Displaying Data in DIAdem VIEW
- Display Types in DIAdem VIEW
- Transferring Worksheets to DIAdem REPORT

04

Creating Reports

TOPICS

- Learn how to create reports of your raw and analyzed data.
- Introduction to DIAdem REPORT
- Components of DIAdem REPORT
- Creating a Report
- Formats and Display Types

05

Analyzing Data

TOPICS

- Learn how to use mathematical functions to extract additional information from your data.
- Exploring DIAdem ANALYSIS
- Calculations in DIAdem ANALYSIS

06

Calculator and Calculation Manager

TOPICS

- Learn how to use the Calculator and the Calculation Manager to analyze data with your own formulas.
- Working with the Calculator
- Calculator Operands and Operations
- Working with the Calculation Manager

07

Units in DIAdem

TOPICS

- Learn how to execute calculations with units.
- Exploring the Units Catalog
- Defining Physical Quantities and Units
- Editing the Units Catalog
- Working with Units
- Quantity-Based and Non-Quantity-Based Calculations in DIAdem

08

Automating DIAdem Workflows

TOPICS

- Learn how to use DIAdem SCRIPT to automate workflows.
- Exploring DIAdem SCRIPT
- Automating DIAdem with the Recording Mode
- Editing a Script
- Evaluating a Series of Files

09

Solving Typical Tasks with DIAdem

TOPICS

- Learn how to use DIAdem to manage your daily data tasks.
- Importing External Data into DIAdem
- Finding and Graphing Peaks
- Specifying Frequency Contents
- Curve Fitting
- Working with 3D Data

10

Measuring, Controlling, and Visualizing Data

TOPICS

- Learn how to use the DAC and VISUAL panels to acquire and process data online.
- DIAdem DAC and DIAdem VISUAL
- Creating and Editing the Block Diagram
- Simulating Processes and Scaling Signals
- Visualizing Measured Values
- Integrating Measurement Hardware
- Working with Packet Processing

DELIVERY NOTE

How It Is Delivered

- Virtual instructor-led training includes digital course material that is delivered through the NI Learning Center.
- NI virtual instructor-led training is delivered through Zoom, and Amazon AppStream/LogMein access is provided to participants to perform the exercises on virtual machines equipped with the latest software.



WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

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