

uCertify

Data Analysis and Visualization with Excel



Lesson



Practice test



Live-Lab

08 Jun 2023

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- 2 Data Analysis Fundamentals
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Use the Data Analysis and Visualization with Excel course and lab to learn the skills of excel data visualization. The course and lab provide knowledge and skills required for analyzing data with formulas and functions; analyzing data with PivotTables, presenting visual insights with dashboards in excel, and many more. This course also provides knowledge related to analyzing data with the data analysis ToolPak, connecting to Data with Queries and many more.

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- 2019
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1: Introduction

- Course Description
- How to Use This Course
- Course-Specific Technical Requirements

2: Data Analysis Fundamentals

- Topic A: Introduction to Data Science
- Topic B: Create and Modify Tables
- Topic C: Sort and Filter Data
- Summary

3: Visualizing Data with Excel

- Topic A: Visualize Data with Charts
- Topic B: Modify and Format Charts
- Topic C: Apply Best Practices in Chart Design
- Summary

4: Analyzing Data with Formulas and Functions

- Topic A: Analyze Data with Formulas and Named Ranges
- Topic B: Analyze Data with Functions
- Topic C: Implement Data Validation, Forms, and Controls
- Topic D: Create Conditional Visualizations with Lookup Functions
- Summary

5: Analyzing Data with PivotTables

- Topic A: Create a PivotTable
- Topic B: Analyze PivotTable Data
- Summary

6: Presenting Visual Insights with Dashboards in Excel

- Topic A: Visualize Data with PivotCharts
- Topic B: Filter Data Using Slicers and Timelines
- Topic C: Create a Dashboard in Excel
- Summary

7: Creating Geospatial Visualizations with Excel

- Topic A: Create Map Charts in Excel
- Topic B: Customize Map Charts in Excel
- Summary

8: Performing Statistical Analysis

- Topic A: Visualize Trendlines and Sparklines with Excel
- Topic B: Analyze Data with the Data Analysis ToolPak
- Summary

9: Getting and Transforming Data

- Topic A: Connect to Data with Queries
- Topic B: Clean and Combine Data
- Topic C: Shape and Transform Data
- Summary

10: Modeling and Analyzing Data with Power Pivot

- Topic A: Install Power Pivot in Excel
- Topic B: Create Data Models with Power Pivot

- Topic C: Create Power Pivots
- Topic D: Perform Advanced Data Analysis and Visualization
- Summary

11: Presenting Insights with Reports

- Topic A: Plan a Report
- Topic B: Create a Report
- Summary

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PRE-ASSESSMENTS QUESTIONS

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POST-ASSESSMENTS QUESTIONS

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Data Analysis Fundamentals

- Analyzing Data
- Creating and Modifying a Table
- Sorting and Filtering Data

Visualizing Data with Excel

- Creating Charts
- Modifying and Formatting Charts
- Applying the Best Practices of Chart Design

Analyzing Data with Formulas and Functions

- Analyzing Data Using Formulas
- Analyzing Data Using Functions
- Working with Logical Functions
- Implementing Data Validation
- Implementing Form Controls
- Using LOOKUP Functions

Analyzing Data with PivotTables

- Creating PivotTables
- Analyzing the PivotTable Data

Presenting Visual Insights with Dashboards in Excel

- Visualizing Data with PivotCharts
- Filtering Data Using Slicers
- Filtering Data Using Timelines
- Creating a Dashboard in Excel

Creating Geospatial Visualizations with Excel

- Creating Map Charts in Excel
- Formatting and Customizing Map Charts

Performing Statistical Analysis

- Visualizing Trendlines in Excel
- Visualizing Sparklines in Excel
- Installing and Activating the Data Analysis ToolPak
- Performing Statistical Analysis with the Data Analysis ToolPak

Getting and Transforming Data

- Connecting to Data with Microsoft Power Query
- Cleaning and Combining Data using the Power Query Editor

Modeling and Analyzing Data with Power Pivot

- Installing and Activating Power Pivot
- Creating Data Models with Power Pivot
- Creating Power Pivots
- Creating a KPI
- Creating a New Perspective

Presenting Insights with Reports

- Creating a Report in Excel
- Creating a Template of a Report

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LIVE LABS

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VIDEO TUTORIALS

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HOURS

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support@ucertify.com

