uCertify

Course Outline

The Big Book of Dashboards: Visualizing Your Data Using Real-World Business Scenarios

13 Jun 2025

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3. Expert Instructor-Led Training
4. ADA Compliant & JAWS Compatible Platform
5. State of the Art Educator Tools
6. Award Winning Learning Platform (LMS)
7. Chapter & Lessons

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   Chapter 3: Course Metrics Dashboard

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   Chapter 5: What-If Analysis: Wage Increase Ramifications

   Chapter 6: Executive Sales Dashboard

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   Chapter 8: Are We on Pace to Reach Our Goals?

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Chapter 26: Showing Actual versus Potential Utilization

Chapter 27: Health Care Provider Productivity Monitoring

Chapter 28: Telecom Operator Executive Dashboard

Chapter 29: Economy at a Glance

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Chapter 32: Visualizing Time

Chapter 33: Beware the Dead-End Dashboard

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Chapter 35: The Allure of Pies and Donuts

Chapter 36: Clouds and Bubbles

Chapter 37: A Journey into the Unknown

Videos and How To

8. Live labs

Lab Tasks

Here's what you get

1. Course Objective

The Big Book of Dashboards: Visualizing Your Data Using Real-World Business Scenarios course covers a detailed understanding of Big Book data visualization by providing objective-based interactive lessons and hands-on experience with live labs. It covers the fundamentals of data visualization, the application of dashboards in business scenarios, and then the challenges faced in the real world. The live labs provide the live experience of working with dashboards.

2. Exercises

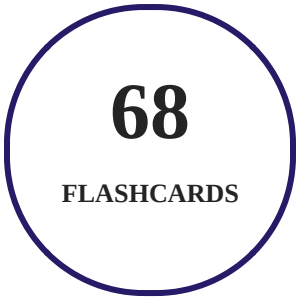
There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.

3. Quiz

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.

4. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



5. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.

6. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

7. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

8. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

9. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**
    1. Best Postsecondary Learning Solution

- **2015**
    1. Best Education Solution

2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**
    1. Best Virtual Learning Solution
    2. Best Education Cloud-based Solution
    3. Best College and Career Readiness Solution
    4. Best Corporate / Workforce Learning Solution
    5. Best Postsecondary Learning Content Solution
    6. Best Postsecondary LMS or Learning Platform
    7. Best Learning Relationship Management Solution

- **2017**
    1. Best Overall Education Solution
    2. Best Student Assessment Solution
    3. Best Corporate/Workforce Learning Solution
    4. Best Higher Education LMS or Learning Platform

- **2018**
    1. Best Higher Education LMS or Learning Platform
    2. Best Instructional Solution in Other Curriculum Areas
    3. Best Learning Relationship Management Solution

- **2019**
    1. Best Virtual Learning Solution
    2. Best Content Authoring Development or Curation Solution
    3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

10. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Introduction

- How This Course Is Different?
- How This Course Is Organized?
- How to Use This Course?
- Succeeding in the Real World
- What to Do and What Not to Do
- What Is a Dashboard?
- Final Thought: There Are No Perfect Dashboards

Chapter 2: Data Visualization: A Primer

- Why Do We Visualize Data?
- How Do We Visualize Data?
- Color
- Common Chart Types
- When Our Visual Processing System Betrays Us
- Every Decision Is a Compromise
- Summary

Chapter 3: Course Metrics Dashboard

- Scenario
- How People Use the Dashboard
- Why This Works
- The Traditional Approach and Why You Should Avoid It
- Author Commentary

Chapter 4: Comparing Individual Performance with Peers

- Scenario

- How People Use the Dashboard
- Why This Works
- Other Considerations
- Alternative Approach
- Author Commentary

Chapter 5: What-If Analysis: Wage Increase Ramifications

- Scenario
- Why This Works
- Dashboard Designer Commentary
- Author Commentary

Chapter 6: Executive Sales Dashboard

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 7: Ranking by Now, Comparing with Then

- Scenario
- How People Use the Dashboard
- Why This Works
- The Traditional Approach, and Why You Should Avoid It
- Other Approaches
- Author Commentary

Chapter 8: Are We on Pace to Reach Our Goals?

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 9: Multiple Key Performance Metrics

- Scenario
- How People Use the Dashboard
- Why This Works
- Alternative Approaches
- Author Commentary

Chapter 10: Power Plant Operations Monitoring

- Scenario
- How People Use the Dashboard
- Why This Works
- Ben Shneiderman's Mantra
- Author Commentary

Chapter 11: Showing Year-to-Date and Year-over-Year at the Same Time

- Scenario
- How People Use the Dashboard
- Why This Works
- The Traditional Approach, and Why You Should Avoid It
- Dashboard Designer Commentary
- Author Commentary

Chapter 12: Premier League Player Performance Metrics

- Scenario
- How People Use the Dashboard

- Why This Works
- Author Commentary

Chapter 13: RBS 6 Nations Championship Match Performance Analysis

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 14: Web Analytics

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 15: Patient History Analysis of Recent Hospital Admissions

- Scenario
- How People Use the Dashboard
- Why This Works

- Dashboard Designer Commentary
- Author Commentary

Chapter 16: Hospitality Dashboard for Hotel Management

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 17: Sentiment Analysis: Showing Overall Distribution

- Scenario
- How People Use the Dashboard
- Why This Works
- Other Approaches
- Author Commentary

Chapter 18: Showing Sentiment with Net Promoter Score

- Scenario
- How People Use the Dashboard

- Why This Works
- Avoiding the Traditional Approach to NPS
- More Thoughts on Visualizing Sentiment
- Author Commentary

Chapter 19: Server Process Monitoring

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 20: Big Mac Index

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 21: Complaints Dashboard

- Scenario

- How People Use the Dashboard
- Why This Works
- Other Approaches
- Author Commentary

Chapter 22: Hospital Operating Room Utilization

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 23: Showing Rank and Magnitude

- Scenario
- How People Use the Dashboard
- Why This Works
- Another Approach: A Bump Chart
- Author Commentary

Chapter 24: Measuring Claims across Multiple Measures and Dimensions

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 25: Showing Churn or Turnover

- Scenario
- How People Use the Dashboard
- Why This Works
- Other Use Cases and Approaches
- Author Commentary

Chapter 26: Showing Actual versus Potential Utilization

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 27: Health Care Provider Productivity Monitoring

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 28: Telecom Operator Executive Dashboard

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 29: Economy at a Glance

- Scenario
- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 30: Call Center

- Scenario

- How People Use the Dashboard
- Why This Works
- Author Commentary

Chapter 31: Want to Engage People? Make Your Dashboards Personal

- Overview
- Personalized Dashboards
- Make the Demographics Dashboard Personal
- But What If You Still Want to Make Something Beautiful?
- Conclusion

Chapter 32: Visualizing Time

- Introduction
- How Much Time Do You Want to See?
- How Does Today Compare with the Start of a Time Period?
- Are There Cyclical Patterns in My Data?
- How Can I Look Up Trends Across Two Time Dimensions?
- How Can I Look at Rank, Not Value, Over Time?

- How Can I Compare Growth Rates of Things That Happen at Different Times?
- How Can I Show the Duration of Events?
- How Can I Focus on Bottlenecks in a Process?
- Which Time Chart Should I Use on My Dashboard?

Chapter 33: Beware the Dead-End Dashboard

- Review Your KPIs
- Track Usage with Data
- Speak to Your Users
- Build Starter Dashboards
- Summary

Chapter 34: The Allure of Red and Green

- Designing Color-Blind-Friendly Visualizations
- Conclusion

Chapter 35: The Allure of Pies and Donuts

- Background
- Conclusion

Chapter 36: Clouds and Bubbles

- The Allure of Word Clouds and Bubble Charts
- Marist Poll and Views of the 2016 Presidential Election
- Conclusion

Chapter 37: A Journey into the Unknown

- Keep Asking Questions
- The Squiggle of Visual Exploration

11. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations
- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

Lab Tasks

Data Visualization: A Primer

- Creating and Analyzing Chart Types
- Visualizing Data

Course Metrics Dashboard

- Using the Show Me Toolbar
- Creating a Connection in a New Workbook
- Creating a Dashboard and Implementing Actions

Ranking by Now, Comparing with Then

- Creating a Regional Scoreboard

Power Plant Operations Monitoring

- Building a Bullet Graph

Showing Year-to-Date and Year-over-Year at the Same Time

- Performing Quick Table Calculations

Patient History Analysis of Recent Hospital Admissions

- Viewing the Aggregate Data

Showing Sentiment with Net Promoter Score

- Creating a Stacked Bar Chart

Server Process Monitoring

- Enhancing the User Experience, Analysis, and Visualizations

Complaints Dashboard

- Creating Filled, Symbol, and Density Maps

Hospital Operating Room Utilization

- Creating a Gantt Chart

Want to Engage People? Make Your Dashboards Personal

- Creating a Dashboard in Excel
- Creating a Story
- Building a Dashboard

Visualizing Time

- Creating a Line Chart

Clouds and Bubbles

- Creating a Bar Chart

A Journey into the Unknown

- Highlighting Categories of Interest

Here's what you get

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LIVE LABS	VIDEO TUTORIALS	HOURS

You can’t stay away! Get in touch with our team to know how we can work together for the long