

Business Analytics with Power Bl



Conditions and Terms of Use

Microsoft Confidential

This training package is proprietary and confidential, and is intended only for uses described in the training materials. Content and software is provided to you under a Non-Disclosure Agreement and cannot be distributed. Copying or disclosing all or any portion of the content and/or software included in such packages is strictly prohibited.

The contents of this package are for informational and training purposes only and are provided "as is" without warranty of any kind, whether express or implied, including but not limited to the implied warranties of merchantability, fitness for a particular purpose, and non-infringement.

Training package content, including URLs and other Internet Web site references, is subject to change without notice. Because Microsoft must respond to changing market conditions, the content should not be interpreted to be a commitment on the part of Microsoft, and Microsoft cannot guarantee the accuracy of any information presented after the date of publication. Unless otherwise noted, the companies, organizations, products, domain names, e-mail addresses, logos, people, places, and events depicted herein are fictitious, and no association with any real company, organization, product, domain name, e-mail address, logo, person, place, or event is intended or should be inferred.

Copyright and Trademarks

© 2016 Microsoft Corporation. All rights reserved.

Microsoft may have patents, patent applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this document. Except as expressly provided in written license agreement from Microsoft, the furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property.

Complying with all applicable copyright laws is the responsibility of the user. Without limiting the rights under copyright, no part of this document may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), or for any purpose, without the express written permission of Microsoft Corporation.

For more information, see Use of Microsoft Copyrighted Content at http://www.microsoft.com/en-us/legal/intellectualproperty/Permissions/default.aspx

DirectX, Hyper-V, Internet Explorer, Microsoft, Outlook, OneDrive, SQL Server, Windows, Microsoft Azure, Windows PowerShell, Windows Server, Windows Vista, and Zune are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Other Microsoft products mentioned herein may be either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are property of their respective owners.

Module 3: Predictive Analytics with Power BI and R

Lesson 1: Introduction

Power BI and R Module Objectives

- After completing this learning unit, you will be able to describe what is machine learning and its objectives
- You will learn the basics of R language and how to create machine learning models using it
- You will use R integrated with Power BI to achieve great flexibility with R as a data source and R visuals
- To close this learning unit, you will see an introduction to Azure Machine Learning and a strategy to integrate with Power BI and R

- Machine Learning Introduction
 - Introduction to Machine Learning
 - Real World Problems
 - Basic Concepts
 - Machine Learning Algorithms
 - Quiz

- Introduction to R language
 - Introduction to R
 - Integrated Development Environments (IDEs)
 - Basic R Concepts
 - Vector, Matrix, Factor and Data Frames
 - Lab 1 Exercise 1: R Programming
 - Extending with New Packages
 - Plotting Data
 - Lab 1 Exercise 2: Plotting Data
 - Creating Machine Learning models with R
 - Lab 2 Machine Learning Model with R

- Using R with Power BI
 - Using R as a Data Source
 - Lab 3 Exercise 1: Using R as a Data Source
 - Introduction to R Visuals
 - Data Refreshing
 - Lab 3 Exercise 2: R Visuals

- AzureML Overview
 - Azure Machine Learning Overview
 - Lab 04 Using AzureML and Power BI

