Course Content

|  |  |  |  |
| --- | --- | --- | --- |
| **MDC Official Course** | **Lesson** | **Aligned Online Training on Microsoft Learn** | **Deliverable** |
| **Module 1: Get Started with Microsoft Data Analytics**  45 minutes | **Lesson 1:**Data Analytics and Microsoft  **Lesson 2:**Getting Started with Power BI | [Get started with Microsoft data analyticsLinks to an external site.](https://docs.microsoft.com/en-us/learn/paths/data-analytics-microsoft/?ns-enrollment-type=exam&ns-enrollment-id=exam.pl-300)  1 hours 15 minutes  Deliverable: Screenshot | [Lesson 1:  Screenshot of QuizLinks to an external site.](https://docs.microsoft.com/en-us/learn/modules/data-analytics-microsoft/)  5 Points    [Lesson 2: Screenshot of QuizLinks to an external site.](https://docs.microsoft.com/en-us/learn/modules/get-started-with-power-bi/)  5 Points    Also, .pbix of classwork (Analysis) |
| **Module 2: Getting Data in Power BI**  45 minutes | **Lesson 1:**Data Analytics and Microsoft  **Lesson 2:**Optimize Performance  **Lesson 3:**Resolve Data Errors | [Prepare data for analysisLinks to an external site.](https://docs.microsoft.com/en-us/learn/paths/prepare-data-power-bi/?ns-enrollment-type=exam&ns-enrollment-id=exam.pl-300)  3 hours 30 minutes | [Screenshot of Quiz & LabLinks to an external site.](https://docs.microsoft.com/en-us/learn/modules/get-data/)  10 Points    Also, .pbix of group work / classwork (worth 2 of the 10 points) |
| **Module 3: Cleaning, Transforming, and Loading Data in Power BI**  45 minutes | **Lesson 1:**Shaping the Data  **Lesson 2:**Profiling the Data  **Lesson 3:**Enhance the data structure | [Prepare data for analysisLinks to an external site.](https://docs.microsoft.com/en-us/learn/paths/prepare-data-power-bi/?ns-enrollment-type=exam&ns-enrollment-id=exam.pl-300)  3 hours 30 minutes | [Screenshot of Quiz and LabLinks to an external site.](https://docs.microsoft.com/en-us/learn/modules/clean-data-power-bi/)  10 Points  Also, .pbix of group work / classwork (worth 2 of the 10 points) |
| **Module 4: Design a Data Model in Power BI**  45 minutes | **Lesson 1:**Introduction to data modeling  **Lesson 2:**Working with tables  **Lesson 3:**Dimensions and Hierarchies | [Model data in Power BILinks to an external site.](https://docs.microsoft.com/en-us/learn/paths/model-power-bi/?ns-enrollment-type=exam&ns-enrollment-id=exam.pl-300)  6 hours | [Screenshot of Quiz and LabLinks to an external site.](https://docs.microsoft.com/en-us/learn/modules/design-model-power-bi/)  10 Points    Also, .pbix of group work / classwork (worth 2 of the 10 points) |
| **Module 5: Create Model Calculations using DAX in Power BI**  45 minutes | **Lesson 1:**Introduction to DAX  **Lesson 2:**Real-time dashboards  **Lesson 3:**Advanced DAX | [Model data in Power BILinks to an external site.](https://docs.microsoft.com/en-us/learn/paths/model-power-bi/?ns-enrollment-type=exam&ns-enrollment-id=exam.pl-300)  6 hours | [Screenshot of Quiz and both LabsLinks to an external site.](https://docs.microsoft.com/en-us/learn/modules/create-measures-dax-power-bi/)  10 Points  Also, .pbix of group work / classwork (worth 2 of the 10 points) |
| **Module 6: Optimize Model Performance in Power BI**  45 minutes | **Lesson 1:**Optimize the data model for performance  **Lesson 2:**Optimize DirectQuery Models | [Model data in Power BILinks to an external site.](https://docs.microsoft.com/en-us/learn/paths/model-power-bi/?ns-enrollment-type=exam&ns-enrollment-id=exam.pl-300)  6 hours | [Screenshot of Quiz and Mini Project (Assigned in Class)Links to an external site.](https://docs.microsoft.com/en-us/learn/modules/optimize-model-power-bi/)  10 Points  Also, .pbix of group work / classwork (worth 2 of the 10 points) |
| **Module 7: Create Reports in Power BI**  45 minutes | **Lesson 1:**Design a report  **Lesson 2:**Enhance the report | [Visualize data in Power BILinks to an external site.](https://docs.microsoft.com/en-us/learn/paths/visualize-data-power-bi/?ns-enrollment-type=exam&ns-enrollment-id=exam.pl-300)  5 hours 50 minutes | [Screenshot of Quiz and LabLinks to an external site.](https://docs.microsoft.com/en-us/learn/modules/visuals-power-bi/)  10 Points    [Screenshot of Quiz and LabLinks to an external site.](https://docs.microsoft.com/en-us/learn/modules/data-driven-story-power-bi/)  10 Points  Also, .pbix of group work / classwork (worth 4 of the 20 points) |
| **Module 8: Create Dashboards in Power BI**  45 minutes | **Lesson 1:**Create a Dashboard  **Lesson 2:**Real-time Dashboards  **Lesson 3:**Enhance a Dashboard | [Visualize data in Power BILinks to an external site.](https://docs.microsoft.com/en-us/learn/paths/visualize-data-power-bi/?ns-enrollment-type=exam&ns-enrollment-id=exam.pl-300)  5 hours 50 minutes | [Screenshot of Quiz and LabLinks to an external site.](https://docs.microsoft.com/en-us/learn/modules/create-dashboards-power-bi/)  10 Points    [Screenshot of Quiz and LabLinks to an external site.](https://docs.microsoft.com/en-us/learn/modules/create-paginated-reports-power-bi/)  10 Points  Also, .pbix of group work / classwork (worth 2 of the 10 points) |
| **Final Project**  **Midterm** |  |  | 100 Points  50 Points |