

IBM Certified watsonx Data Scientist — Associate

OEM: IBM • Duration: 3 Days (24 hrs) • Code: C9006400

COURSE MODULES & TOPICS

Section 1: Evaluate the Business Problem (16%)

- Translate business objectives into Data Science/ML/AI solutions
- Formulate the hypothesis to be tested
- Identify appropriate tools for analysis

Section 2: Perform Exploratory Data Analysis (21%)

- Visually examine the data for data understanding
- Assess data characteristics to guide future processing
- Conduct statistical analysis of data
- Visualize data to identify patterns and trends
- Deselect features that have minimal predictive value

Section 3: Development Tools and Techniques (13%)

- Assess which modeling and statistical techniques are best suited
- Select the appropriate environment and libraries

Section 4: Pre-Processing and Feature Engineering (33%)

- Integrate data from different sources and formats
- Normalize data
- Mitigate imbalanced data
- Handle data anomalies and missing values
- Identify the best categorical data encoding techniques
- Transform Features
- Select Relevant Features

Section 5: Model Selection, Training, Evaluation, and Presentation (17%)

- Identify adequate Machine Learning Model
- Split the data to support model evaluation
- Choose appropriate model metrics to assess model performance