



IBM C1000-059

**IBM AI Enterprise Workflow Data Science Specialist Certification
Questions & Answers**

Exam Summary – Syllabus – Questions

C1000-059
[IBM Certified Specialist - AI Enterprise Workflow V1](#)
62 Questions Exam - 44 / 62 Cut Score - Duration of 90 minutes

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Know Your C1000-059 Certification Well:

The C1000-059 is best suitable for candidates who want to gain knowledge in the IBM Data and AI - Data and AI. Before you start your C1000-059 preparation you may struggle to get all the crucial AI Enterprise Workflow Data Science Specialist materials like C1000-059 syllabus, sample questions, study guide.

But don't worry the C1000-059 PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the C1000-059 syllabus?
- How many questions are there in the C1000-059 exam?
- Which Practice test would help me to pass the C1000-059 exam at the first attempt?

Passing the C1000-059 exam makes you IBM Certified Specialist - AI Enterprise Workflow V1. Having the AI Enterprise Workflow Data Science Specialist certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

IBM C1000-059 AI Enterprise Workflow Data Science Specialist Certification Details:

Exam Name	IBM Certified Specialist - AI Enterprise Workflow V1
Exam Code	C1000-059
Exam Price	\$200 (USD)
Duration	90 mins
Number of Questions	62
Passing Score	44 / 62
Books / Training	Coursera - AI Enterprise Workflow Certification Training
Schedule Exam	Pearson VUE
Sample Questions	IBM AI Enterprise Workflow Data Science Specialist Sample Questions
Practice Exam	IBM C1000-059 Certification Practice Exam

C1000-059 Syllabus:

Topic	Details
<p>Scientific, Mathematical, and technical essentials for Data Science and AI</p>	<ul style="list-style-type: none"> - Explain the difference between Descriptive, Prescriptive, Predictive, Diagnostic, and Cognitive Analytics - Describe and explain the key terms in the field of artificial intelligence (Analytics, Data Science, Machine Learning, Deep Learning, Artificial Intelligence etc.) - Distinguish different streams of work within Data Science and AI (Data Engineering, Data Science, Data Stewardship, Data Visualization etc.) - Describe the key stages of a machine learning pipeline. - Explain the fundamental terms and concepts of design thinking - Explain the different types of fundamental Data Science - Distinguish and leverage key Open Source and IBM tools and technologies that can be used by a Data Scientist to implement AI solutions - Explain the general properties of common probability distributions. - Explain and calculate different types of matrix operations
<p>Applications of Data Science and AI in Business</p>	<ul style="list-style-type: none"> - Identify use cases where artificial intelligence solutions can address business opportunities - Translate business opportunities into a machine learning scenario - Differentiate the categories of machine learning algorithms and the scenarios where they can be used - Show knowledge of how to communicate technical results to business stakeholders - Demonstrate knowledge of scenarios for application of machine learning

Topic	Details
Data understanding techniques in Data Science and AI	<ul style="list-style-type: none"> - Demonstrate knowledge of data collection practices - Explain characteristics of different data types - Show knowledge of data exploration techniques and data anomaly detection - Use data summarization and visualization techniques to find relevant insight
Data preparation techniques in Data Science and AI	<ul style="list-style-type: none"> - Demonstrate expertise cleaning data and addressing data anomalies - Show knowledge of feature engineering and dimensionality reduction techniques - Demonstrate mastery preparing and cleaning unstructured text data
Application of Data Science and AI techniques and models	<ul style="list-style-type: none"> - Explain machine learning algorithms and the theoretical basis behind them - Demonstrate practical experience building machine learning models and using different machine learning algorithms
Evaluation of AI models	<ul style="list-style-type: none"> - Identify different evaluation metrics for machine learning algorithms and how to use them in the evaluation of model performance - Demonstrate successful application of model validation and selection methods - Show mastery of model results interpretation - Apply techniques for fine tuning and parameter optimization
Deployment of AI models	<ul style="list-style-type: none"> - Describe the key considerations when selecting a platform for AI model deployment - Demonstrate knowledge of requirements for model monitoring, management and maintenance - Identify IBM technology capabilities for building, deploying, and managing AI models
Technology Stack for Data Science and AI	<ul style="list-style-type: none"> - Describe the differences between traditional programming and machine learning - Demonstrate foundational knowledge of using python as a tool for building AI solutions

Topic	Details
	<ul style="list-style-type: none"> - Show knowledge of the benefits of cloud computing for building and deploying AI models - Show knowledge of data storage alternatives - Demonstrate knowledge on open source technologies for deployment of AI solutions - Demonstrate basic understanding of natural language processing - Demonstrate basic understanding of computer vision - Demonstrate basic understanding of IBM Watson AI services

IBM C1000-059 Sample Questions:

Question: 1

To reduce the overall time to complete a data ingestion job, what two actions should be taken?

- a) Assemble the data pipeline into a series of immutable transformations, which can be combined after the processing.
- b) Partition the data within each pipeline to take advantage of parallel processing (multiple server cores, processors, etc.).
- c) Look for outliers in the data, missing values, and skewness of the data.
- d) Build a dedicated pipeline for each dataset to ensure that all of them can be processed independently and concurrently.
- e) Apply a chi-squared statistical test to rank the impact of each feature on the concept label and discard the less impactful features before model training.

Answer: b, d

Question: 2

What are two common ways to handle missing values when cleaning data?

- a) delete records
- b) replace with '1'
- c) replace with mean
- d) replace with '100'
- e) replace with standard deviation

Answer: a, c

Question: 3

A client, a tomato grower, provides a dataset of measurements of tomato plants and environmental data.

A data scientist thinks the features probably have a significant amount of redundancy. The data scientist decides to apply dimensionality reduction to the data features.

Which three techniques are examples of dimensionality reduction?

- a) k-means clustering
- b) batch normalization
- c) combinatorial optimization
- d) autoencoder neural network
- e) principal component analysis (PCA)
- f) t-distributed stochastic neighbor embedding (t-SNE)

Answer: d, e, f

Question: 4

Which two statements are true in the context of evaluating machine learning models?

- a) Accuracy of 95% is always a good result.
- b) Random guessing can be used as a baseline.
- c) The F2-score puts equal weight on precision and recall.
- d) F-score is the harmonic mean between precision and recall.
- e) Evaluation metrics on training data are more important than on test data.

Answer: b, d

Question: 5

What are three hyperparameters that are used when building a simple decision tree model?

- a) kernel
- b) learning rate
- c) maximum depth
- d) split criterion
- e) number of nearest neighbors
- f) minimum number of samples in a leaf node

Answer: c, d, f

Question: 6

The "aperture problem" in machine vision is best defined as?

- a) Identifying a whole object or scene based on seeing only a small part of that object or scene
- b) generating "snakes" of active contours based on boundary curves
- c) pattern matching based on an undertrained model
- d) over-fitting a model based on close-up images

Answer: a

Question: 7

What is used to update coefficients in logistic regression?

- a) number of features
- b) gradient descent
- c) slope
- d) kernel

Answer: b

Question: 8

What should be the first step to begin the task of collecting initial data?

- a) Copy data from several sources to a central repository to review the data
- b) Determine if a poll is required to collect data
- c) Verify the technical skills that are required to collect data
- d) Understand the business requirement to find out what would be the relevant data needed

Answer: d

Question: 9

Which is an accurate statement regarding logistic regression?

- a) Logistic regression is a non-linear classifier.
- b) Logistic regression can be used for unsupervised learning.
- c) Logistic regression can be used for binary classification.
- d) The logistic function $f(x) = 1/(1 + \exp(-(wx + b)))$ can take values between $[0, \text{inf}]$.

Answer: c

Question: 10

A client requests a general artificial intelligence (AI) tool that they can plug into their data warehouse. What is the best response to this request?

- a) There is no general AI tool currently that works universally.
- b) Apply neural networks to your data.
- c) IBM Watson is the tool you are looking for.
- d) AI can create value without any human-intervention.

Answer: a

Study Guide to Crack IBM AI Enterprise Workflow Data Science Specialist C1000-059 Exam:

- Getting details of the C1000-059 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the C1000-059 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the IBM provided training for C1000-059 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the C1000-059 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on C1000-059 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for C1000-059 Certification

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