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# CIW 1D0-184

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**CIW AI Data Science Specialist Certification Questions & Answers**

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Exam Summary – Syllabus – Questions

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**1D0-184**

**[CIW AI Data Science Specialist](#)**

**54 Questions Exam – 74.07% Cut Score – Duration of 75 minutes**

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## Know Your 1D0-184 Certification Well:

The 1D0-184 is best suitable for candidates who want to gain knowledge in the CIW Artificial Intelligence. Before you start your 1D0-184 preparation you may struggle to get all the crucial AI Data Science Specialist materials like 1D0-184 syllabus, sample questions, study guide.

But don't worry the 1D0-184 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 1D0-184 syllabus?
- How many questions are there in the 1D0-184 exam?
- Which Practice test would help me to pass the 1D0-184 exam at the first attempt?

Passing the 1D0-184 exam makes you CIW AI Data Science Specialist. Having the AI 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.

## CIW 1D0-184 AI Data Science Specialist Certification Details:

Exam Name	CIW AI Data Science Specialist
Exam Code	1D0-184
Exam Price	\$175 (USD)
Duration	75 mins
Number of Questions	54
Passing Score	74.07%
Schedule Exam	<a href="#">PSI Store</a> <a href="#">CIW Shop</a>
Sample Questions	<a href="#">CIW AI Data Science Specialist Sample Questions</a>
Practice Exam	<a href="#">CIW 1D0-184 Certification Practice Exam</a>

## 1D0-184 Syllabus:

Topic	Details
<b>Domain 1: Data Science Overview</b>	
Fundamentals	<ul style="list-style-type: none"> <li>- Define machine learning</li> <li>- Explain data science applications for business</li> <li>- Distinguish the difference between AI and data science</li> <li>- List applications of data science</li> <li>- Describe what is the purpose of data science?</li> <li>- Explain what a correlation coefficient is and how it is calculated</li> </ul>
Legal, Ethics and Privacy Considerations	<ul style="list-style-type: none"> <li>- Explain societal impact of AI</li> <li>- Explain the implications of biased predictions by data models</li> <li>- Apply ethical reasoning in decision making scenarios</li> <li>- Identify ethical guidelines to be applied in data science</li> <li>- Discuss web security standards</li> <li>- Explain data protection security methodologies</li> <li>- Demonstrate risks associated with data privacy and integrity</li> <li>- Demonstrate data collection security principles</li> </ul>
Career	<ul style="list-style-type: none"> <li>- Apply data evaluation and data modeling for business solutions</li> <li>- Describe industries in need of data science</li> <li>- Read scientific articles, conference papers, etc. to identify emerging analytic trends and technologies</li> <li>- Learn about the latest developments in your professional field</li> </ul>
<b>Domain 2: Analysis</b>	
Exploratory Data Analysis	<ul style="list-style-type: none"> <li>- Use data mining techniques</li> <li>- Explain clustering techniques and their use cases</li> <li>- Conduct exploratory data analysis</li> <li>- Explain how to capture properties of distributions (mean, variance, skewness, kurtosis)</li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- Analyze sets of data using descriptive statistical methods</li> <li>- Construct frequency distributions</li> </ul>
Modeling and Visualization Techniques	<ul style="list-style-type: none"> <li>- Create a visualization of one or two variables in order to understand the data better</li> <li>- Perform feature selection for supervised and unsupervised analysis</li> <li>- Explain curse of dimensionality</li> <li>- Explain the difference between model underfitting and overfitting</li> <li>- Explain the different types of errors made by a predictive model</li> <li>- Apply dimensionality reduction techniques (e.g., PCA) for data visualization</li> <li>- Explain the difference between classification and regression</li> <li>- Identify different performance metrics for classification (accuracy, ROC curve, AUC, F1)</li> <li>- Analyze data using correlation and linear regression methods</li> <li>- Describe data analyzing techniques</li> </ul>
Statistics	<ul style="list-style-type: none"> <li>- Provide statistical and mathematical solutions</li> <li>- Explain linear models and generalized linear models</li> <li>- Explain bias-variance trade off</li> <li>- Compare and contrast different model evaluation techniques and their pros and cons</li> <li>- Define causal inference and with which kind of data it can be performed</li> <li>- Explain importance of checking model assumptions before deciding on final model</li> <li>- Explain how to detect bias in a model</li> <li>- Explain how to evaluate success of model fitting</li> <li>- Describe statistical power and why it is important</li> <li>- Explain difference between parametric and non-parametric models</li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- Explain how to decide which performance metrics to use given a prediction problem</li> <li>- Explain how to create confidence intervals around estimations</li> <li>- Explain the difference between the frequentist and Bayesian approaches to probability</li> <li>- Explain the concept of hypothesis testing</li> </ul>
<p><b>Domain 3: Managing Data</b></p>	
General Data Management	<ul style="list-style-type: none"> <li>- Develop data structures and data warehousing solutions</li> <li>- Explain how to analyze big datasets through distributed systems (e.g., Hadoop, MapReduce)</li> <li>- Write SQL queries to fetch the data</li> <li>- List the different stages in the data cycle</li> <li>- Explain how to maintain a dataset through integration and scrubbing</li> <li>- Demonstrate data source attributes, benefits and collection strategies</li> <li>- Explain data selection criteria and procedures</li> <li>- Describe methods for acquiring data</li> </ul>
Querying Databases	<ul style="list-style-type: none"> <li>- Types of databases and query languages</li> <li>- Query languages strengths and weaknesses</li> <li>- Indexes and Query efficiency</li> </ul>
Data Preparation	<ul style="list-style-type: none"> <li>- Handle categorical variables</li> <li>- Explain missing value problem and handling strategies</li> <li>- Explain what outlier is and how an outlier detection process works</li> <li>- Demonstrate data preprocessing and normalization</li> </ul>
<p><b>Domain 4: Professional Skills</b></p>	
Programming	<ul style="list-style-type: none"> <li>- Explain basic concepts about algorithm design such as computational complexity</li> <li>- Program in R</li> <li>- Use matplotlib and/or seaborn to visualize data</li> <li>- Use Pandas to represent data</li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- Use common machine learning packages</li> <li>- Write syntax for an analysis package (e.g., SPSS, SAS, R)</li> <li>- Program in Python</li> <li>- Solve statistical problems using programming languages</li> </ul>
Conduct Research	<ul style="list-style-type: none"> <li>- Design and conduct surveys, opinion polls, or other instruments to collect data</li> <li>- Perform an A/B test to decide of treatment effect</li> <li>- Describe training and testing datasets and their role in analysis and modeling</li> </ul>
Consulting	<ul style="list-style-type: none"> <li>- Provide technical support for existing reports, software, databases, dashboards, or other tools</li> <li>- Advise others on analytical techniques</li> </ul>
Communicating Results	<ul style="list-style-type: none"> <li>- Deliver oral or written presentations of the results of modeling and data analysis</li> <li>- Compile reports, charts, papers, presentations or white papers that describe and interpret findings of analyses</li> <li>- Prepare data visualizations to communicate complex results to non-statisticians</li> <li>- Describe how to interpret and report data analysis results</li> </ul>
Deploy Models	<ul style="list-style-type: none"> <li>- Maintain and update existing models using fresh data or to make new predictions</li> <li>- Choose a methodology for deploying machine learning models for applications</li> <li>- Develop scalable frameworks</li> <li>- Describe how to scale a data science solution</li> </ul>
Problem Identification	<ul style="list-style-type: none"> <li>- Identify problems that can be solved using machine learning models or data analyses</li> <li>- Identify business problems or management objectives that can be addressed through data analysis</li> <li>- Identify solutions to problems (staffing, marketing, etc.) using the results of data analysis</li> </ul>

## CIW 1D0-184 Sample Questions:

### Question: 1

Which of these are ethical guidelines to be applied in data science?

- a) Using data without consent for research
- b) Transparency in how data models work
- c) Manipulating data to fit preconceived notions
- d) Sharing private data publicly for scrutiny

**Answer: b**

### Question: 2

Which type of database is optimized for handling large volumes of unstructured data?

- a) Relational database
- b) NoSQL database
- c) Spreadsheet
- d) Paper-based database

**Answer: b**

### Question: 3

What are common types of databases used in data management?

- a) Spreadsheets and Word documents
- b) Relational databases and NoSQL databases
- c) Physical filing systems
- d) Personal diaries

**Answer: b**

### Question: 4

What are the strengths and weaknesses of query languages like SQL and NoSQL?  
(Choose two)

- a) SQL excels in structured data; NoSQL is better for unstructured data
- b) SQL is not suitable for any database operations
- c) NoSQL offers flexibility; SQL offers better consistency
- d) NoSQL cannot handle large datasets

**Answer: a, c**



**Question: 5**

Why is it important to understand the strengths and weaknesses of different query languages?

- a) To use only one language for all database types
- b) To avoid using query languages altogether
- c) To choose the appropriate language based on database and requirements
- d) To complicate the data retrieval process

**Answer: c**

**Question: 6**

Why is data normalization important in data preparation?

(Choose two)

- a) To ensure that different scales of data do not impact the analysis
- b) To convert all data to the same value
- c) To create a uniform distribution across all variables
- d) To adjust values to a common scale without distorting differences in ranges

**Answer: a, d**

**Question: 7**

How do classification and regression differ in data analysis?

- a) Classification predicts categorical outcomes; regression predicts numerical outcomes
- b) They are essentially the same in all aspects
- c) Regression is used for visualizing data; classification is not
- d) Classification deals with numerical predictions only

**Answer: a**

**Question: 8**

How can data science benefit marketing strategies?

(Choose two)

- a) Ignoring market research and customer data
- b) By predicting future trends and customer behaviors
- c) Assisting in targeted advertising and customer segmentation
- d) Solely relying on intuition without data analysis

**Answer: b, c**

**Question: 9**

What is the primary goal of applying statistical and mathematical solutions in data analysis?

- a) To make the analysis more complex and difficult to understand
- b) To use only one type of statistical method for all data sets
- c) To rely solely on guesswork and intuition
- d) To identify and interpret patterns and relationships in data

**Answer: d**

**Question: 10**

In the context of data analysis, what is the importance of understanding data distribution properties like mean and variance?

- a) To disregard the variability of data
- b) To gain insights into the central tendency and spread of data
- c) To represent data inaccurately
- d) To focus only on outliers

**Answer: b**

# Study Guide to Crack CIW AI Data Science Specialist 1D0-184 Exam:

- Getting details of the 1D0-184 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 1D0-184 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 CIW provided training for 1D0-184 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 1D0-184 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 1D0-184 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

## Reliable Online Practice Test for 1D0-184 Certification

Make EduSum.com your best friend during your CIW AI Data Science Specialist exam preparation. We provide authentic practice tests for the 1D0-184 exam. Experts design these online practice tests, so we can offer you an exclusive experience of taking the actual 1D0-184 exam. We guarantee you 100% success in your first exam attempt if you continue practicing regularly. Don't bother if you don't get 100% marks in initial practice exam attempts. Just utilize the result section to know your strengths and weaknesses and prepare according to that until you get 100% with our practice tests. Our evaluation makes you confident, and you can score high in the 1D0-184 exam.

**Start Online practice of 1D0-184 Exam by visiting URL**

**<https://www.edusum.com/ciw/1d0-184-ciw-ai-data-science-specialist>**