DELL Technologies

[Announcing]

DEA-7TT2 Associate - Data Science and Big Data Analytics v2 Exam Retirement

The Associate - Data Science Version 2.0 certification (DEA-7TT2) will be retired on February 2, 2024 and will be The new certification offering will launch on **February 3, 2024**. The new certification is **Dell Data Scientist and Big Data Analytics Foundations 2023 D-DS-FN-23**

This certification is focused on skill and outcome-based solutions certifications.

How will this impact you?

If you have already taken the aligned training or previously attempted the exam for the **Associate - Data Science Version 2.0** certification, plan to take the DEA-7TT2 exam by **January 31, 2024.**

- View the DEA-7TT2 exam description and practice test » Once achieved, your credential, Associate - Data Science Version 2.0, will not expire.

If you're just beginning your credential journey after February 3, 2024, please choose this Assessment that aligns closest with the knowledge you're looking to develop.

- **Dell Data Scientist and Big Data Analytics Foundations 2023 (D-DS-FN-23)** Exam Description and Practice Test »

Associate - Data Science Version 2.0

Certification Description

Proven Professional

[Proven Professional Website]

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Certification Overview

This certification enables the learner to immediately participate in big data and other analytics projects. The certification validates the practical foundation skills required by a Data Scientist.

Certification Requirements

To complete the requirements for this certification you must:

Pass the following Associate level exam:

- DEA-7TT2 Associate - Data Science and Big Data Analytics v2 Exam

Note: These details reflect certification requirements as of **6/1/18**.

Other Certification Recommendations

This certification will qualify towards the Specialist level certification in the Dell EMC Proven Professional Data Scientist (DECA-DS) track including the following:

- Specialist - Data Scientist, Advanced Analytics Version 1.0

The Proven Professional Program periodically updates certification requirements. *Please check the Proven Professional CertTracker website regularly for the latest information and for other options to meet the Associate level requirement.

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DEA-7TT2 Associate - Data Science and Big Data Analytics v2 Exam

Exam Description

Overview

This exam is a qualifying exam for the **Associate - Data Science (DECA-DS)** track.

This exam focuses on the practice of data analytics, the role of the Data Scientist, the main phases of the Data Analytics Lifecycle, analyzing and exploring data with R, statistics for model building and evaluation, the theory and methods of advanced analytics and statistical modeling, the technology and tools that can be used for advanced analytics, operationalizing an analytics project, and data visualization techniques. Successful candidates will achieve the Dell EMC Proven Professional – Data Science Associate credential.

Dell Technologies provides free practice tests to assess your knowledge in preparation for the exam. Practice tests allow you to become familiar with the topics and question types you will find on the proctored exam. Your results on a practice test offer one indication of how prepared you are for the proctored exam and can highlight topics on which you need to study and train further. A passing score on the practice test does not guarantee a passing score on the certification exam.

Duration

90 Minutes
(60 Questions)

Pass Score: 60

Practice Test

Associate Exam
DEA-7TT2

Exam Topics

Topics likely to be covered on this exam include:

Big Data, Analytics, and the Data Scientist Role (5%)

- Define and describe the characteristics of Big Data
- Describe the business drivers for Big Data analytics and data science
- Describe the Data Scientist role and related skills

Data Analytics Lifecycle (8%)

- Describe the data analytics lifecycle purpose and sequence of phases
- Discovery - Describe details of this phase, including activities and associated roles
- Data preparation - Describe details of this phase, including activities and associated roles
- Model planning - Describe details of this phase, including activities and associated roles
- Model building - Describe details of this phase, including activities and associated roles

Initial Analysis of the Data (15%)

- Explain how basic R commands are used to initially explore and analyze the data
- Describe and provide examples of the most important statistical measures and effective visualizations of data
- Describe the theory, process, and analysis of results for hypothesis testing and its use in evaluating a model

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Advanced Analytics - Theory, Application, and Interpretation of Results for Eight Methods (40%)

Describe theory, application, and interpretation of results for the following methods:

- K-means clustering
- Association rules
- Linear regression
- Logistic Regression
- Naïve Bayesian classifiers
- Decision trees
- Time Series Analysis
- Text Analytics

Advanced Analytics for Big Data - Technology and Tools (22%)

- Describe the technological challenges posed by Big Data
- Describe the nature and use of MapReduce and Apache Hadoop
- Describe the Hadoop ecosystem and related product use cases
- Describe in-database analytics and SQL essentials
- Describe advanced SQL methods: window functions, ordered aggregates, and MADlib

Operationalizing an Analytics Project and Data Visualization Techniques (10%)

- Describe best practices for communicating findings and operationalizing an analytics project
- Describe best practices for building project presentations for specific audiences
- Describe best practices for planning and creating effective data visualizations

The percentages after each topic above reflects the approximate distribution of the total question set across the exam.

Recommended Training

The following curriculum is recommended for candidates preparing to take this exam.

Please complete one of the following courses

Course Title	Course Number	Mode	Available
Data Science and Big Data Analytics v2 - Classroom	ES712OCMDSBDA	Instructor-Led	7/16/18
Data Science and Big Data Analytics v2 - Virtual Classroom	ES722OCMDSBDA	Virtual Instructor-Led	7/16/18
Data Science and Big Data Analytics v2 - On-Demand Course	ES732OCMDSBDA	On-Demand	9/12/18

Please complete one of the following courses

Course Title	Course Number	Mode	Available
Data Science and Big Data Analytics v2 - Classroom	ES742OCMDSALN	On-Demand Lab	9/12/18
Data Science and Big Data Analytics v2 - Virtual Classroom	ES742OCMDSALE	On-Demand Lab	9/12/18

The course material is supplemented by the textbook. Text book is optional.

Course Title	Mode	Available
Data Science and Big Data Analytics: Discovering, Analyzing, Visualizing and Presenting Data	Book	1/27/15

Purchasing Options available at: http://www.wiley.com/WileyCDA/WileyTitle/productCd-111887613X.html		

Note: These exam description details reflect contents as of **June 01, 2018**.

The Proven Professional Program periodically updates exams to reflect technical currency and relevance. Please check the Proven Professional website regularly for the latest information.