

SAS A00-415

SAS VIYA FUNDAMENTALS OF PROGRAMMING
CERTIFICATION QUESTIONS & ANSWERS

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A00-415

[SAS Certified Associate - Programming Fundamentals Using SAS Viya](#)

50-55 Questions Exam – 68% Cut Score – Duration of 95 minutes



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Discover More about the A00-415 Certification

Are you interested in passing the SAS A00-415 exam? First discover, who benefits from the A00-415 certification. The A00-415 is suitable for a candidate if he wants to learn about Programming. Passing the A00-415 exam earns you the SAS Certified Associate - Programming Fundamentals Using SAS Viya title.

While preparing for the A00-415 exam, many candidates struggle to get the necessary materials. But do not worry; your struggling days are over. The A00-415 PDF contains some of the most valuable preparation tips and the details and instant access to useful [A00-415 study materials just at one click](#).

A00-415 SAS Viya Fundamentals of Programming Certification Details:

Exam Name	SAS Viya Fundamentals of Programming
Exam Code	A00-415
Exam Duration	95 minutes
Exam Questions	50-55
Passing Score	68%
Exam Price	\$120 (USD)
Training	Accelerating SAS Code on the SAS Viya Platform
Exam Registration	Pearson VUE
Sample Questions	SAS Viya Fundamentals of Programming Certification Sample Question
Practice Exam	SAS Viya Fundamentals of Programming Certification Practice Exam

A00-415 Syllabus:

Objective	Details
Programming in SAS Viya Concepts (10-15%)	
Describe the SAS Viya architecture.	<ul style="list-style-type: none"> - Compute Server vs. Cloud Analytics Server (CAS) - Serial vs parallel processing - In-memory processing - Open source integration

Objective	Details
<p>Explain when to use the CAS server for programming tasks.</p>	<ul style="list-style-type: none"> - Size of data - Type of SAS procedure used
<p>Managing Data in CAS (25-30%)</p>	
<p>Explain how to access and use CAS Libraries (caslibs).</p>	<ul style="list-style-type: none"> - Establish CAS sessions with the CAS statement. - Caslib attributes (Session, local, active, personal) - Properties of the casuser caslib - Use the CASLIB statement to assign session-scope caslibs - Assign a libref to a caslib with the LIBNAME statement and CAS engine - View the contents of a caslib with PROC CASUTIL
<p>Describe how to load data into In-Memory Tables.</p>	<ul style="list-style-type: none"> - Load data files into memory - Client-side vs server-side files - Loading client-side data (PROC CASUTIL) <ul style="list-style-type: none"> • LOAD DATA= statement - In-memory table scope (Session vs Global, promoting tables) - Loading server-side data sources (PROC CASUTIL) <ul style="list-style-type: none"> • LOAD CASDATA= statement • ALTERNATE statement - Alternate data loading methods (DATA step, PROC SQL, PROC IMPORT)
<p>Describe how to save and drop In-Memory Tables.</p>	<ul style="list-style-type: none"> - SASHDAT files - PROC CASUTIL <ul style="list-style-type: none"> • SAVE statement • DROPTABLE statement • Suppressing errors
<p>Describe CAS column data types.</p>	<ul style="list-style-type: none"> - Properties of character column variable types <ul style="list-style-type: none"> • CHAR • VARCHAR() • Determine when to use CHAR vs VARCHAR() - Properties of numeric column variable types <ul style="list-style-type: none"> • DOUBLE • INT32 • INT64 - Create varchar column variables with the LENGTH statement - Determine appropriate column data types for example data

Objective	Details
DATA Step and SQL programming in CAS (20-25%)	
Explain how SAS determines where code executes.	<ul style="list-style-type: none"> - Location of the input/output data - What procedures are being run - What statements/functions are used - SESSREF= option on the DATA statement - SESSREF= option within FedSQL - MSGLEVEL= system option
Explain threading within the SAS DATA step.	<ul style="list-style-type: none"> - Where code executes: CAS, Compute Server - Effect of threads on the DATA step - _THREADID_ and _NTHREADS_ automatic variables - SINGLE= DATA step option - Adjust DATA Step code when accumulating totals - Explain how BY groups are processed in CAS enabled DATA step code <ul style="list-style-type: none"> • Relationship between the distribution of threads and BY GROUP variables • DATA step BY GROUP processing and sorting
Update DATA step code to run in CAS.	<ul style="list-style-type: none"> - DESCENDING keyword - WHERE= option - INFILE/INPUT/DATALINES statements - MODIFY/REMOVE/REPLACE statements - DATALIMIT= option - Functions not supported in CAS (Examples: RANBIN, RANUNI, SYMGET, FILEREF, GIT functions)
Update PROC SQL code to run as PROC FEDSQL code.	<ul style="list-style-type: none"> - Data types - Supported statements - Mnemonics vs operators - SESSREF= option - Remerge - Calculated keyword - SET operations - Correlated subqueries - Dictionary tables - Views - LIMIT clause - FORMAT, LABEL vs PROC CASUTIL ALTERNATE CASDATA statement
CAS-Enabled Procedures and User Defined Formats (20%-25%)	
Identify common procedures that	<ul style="list-style-type: none"> - PROC FREQ and UNIVARIATE - SG Graphics procedures - Use the log file to identify where code executed

Objective	Details
run only on the Compute Server.	
Use common procedures that run in both the CAS and Compute Server.	<ul style="list-style-type: none"> - How SAS determines where the procedure runs <ul style="list-style-type: none"> • Location of the input/output data • Which functions/options are used in the code - PROC MEANS & PROC SUMMARY <ul style="list-style-type: none"> • Common Supported Statements: CLASS/BY/VAR/WHERE/FORMAT • Common Supported Statistics: N, NMISS, MIN, MAX, RANGE, MEAN, SUM, STDERR, VAR) • Common Unsupported Statistics: MEDIAN, MODE, percentiles - PROC TRANSPOSE - BY GROUP processing in CAS - Use the log file to identify where code executed
Use Common summary procedures that run only in CAS.	<ul style="list-style-type: none"> - PROC FREQTAB <ul style="list-style-type: none"> • TABLE statement • BY statement - PROC MDSUMMARY <ul style="list-style-type: none"> • VAR statement • OUTPUT statement • GROUPBY statement
Discuss how user-defined formats are used and stored in CAS.	<ul style="list-style-type: none"> - Location where formats are stored within CAS - Saving formats to caslibs with the CASFMLIB= option - Save formats to and retrieve from permanent SASHDAT files with a CAS statement - Assigning formats to in-memory tables
CAS Language (CASL) Programming (10-15%)	
Describe the CASL programming language.	<ul style="list-style-type: none"> - Action Sets - Actions - Parameters
Work with tables using CAS action sets.	<ul style="list-style-type: none"> - TABLE action set <ul style="list-style-type: none"> • Load tables into memory with the loadTable action • Explore table attributes with the tableInfo and columnInfo actions • Explore table data with the fetch action - SIMPLE action set

Objective	Details
	<ul style="list-style-type: none"> • Extract unique values with the distinct action • Determine category distribution with the freq action • Produce descriptive statistics with the summary action <ul style="list-style-type: none"> - Table parameter - Input parameter - Subset parameter - casOut parameter

Broaden Your Knowledge with SAS A00-415 Sample Questions:

Question: 1

What are two valid data types for a CAS table column?

(choose two)

- a) varchar
- b) binary
- c) varbinary
- d) decimal

Answer: a, c

Question: 2

Which action from the table action set lists the files in a caslib's data source?

- a) tableInfo
- b) caslibInfo
- c) tableDetails
- d) fileInfo

Answer: d

Question: 3

When specified on the PROC SUMMARY statement, which statistic causes processing to occur on the Compute Server?

- a) MIN
- b) MEAN
- c) SKEW
- d) STD

Answer: c

Question: 4

You want to use the MEANS procedure to summarize data using the CAS server. Which statement is true?

- a) Statistics that are supported by PROC MEANS are also supported on the CAS server.
- b) You must specify a CAS engine libref with the input table name.
- c) You must sort the data before using BY-group processing on the CAS server.
- d) All PROC MEANS statements are supported for CAS processing.

Answer: b

Question: 5

Assume all caslib names follow libref naming conventions. Which code assigns librefs of the same name to each caslib?

- a) `caslib _all_ assign;`
- b) `caslib assign _all_;`
- c) `caslib libref assign;`
- d) `caslib assign libref;`

Answer: a

Question: 6

Which statement about the CASL language is true?

- a) All CAS-enabled procedures are converted to CASL behind the scenes to run in CAS.
- b) CASL runs actions on both the SAS Compute Server and in CAS.
- c) Actions in CASL are grouped into PROCs, and optional information is provided with parameters.
- d) CASL code is submitted to the CAS server using PROC CASUTIL.

Answer: a

Question: 7

A CAS table has a CHAR column called FirstName with a length of 10. How many bytes are used to store the value "Inez" in the column FirstName?

- a) 4 bytes
- b) 8 bytes
- c) 10 bytes
- d) 20 bytes

Answer: c

Question: 8

What does CAS stand for in CAS language programming?

- a) Centralized Analytical System
- b) Cloud Analytic Services
- c) Clustered Analytical Server
- d) Computerized Analytical Software

Answer: b

Question: 9

You want to generate totals and averages by year for a very large Teradata table using SAS Viya programming methods. What is the most efficient way to achieve this?

- a) Load the table into CAS memory and use a CAS procedure to summarize it.
- b) Summarize the data using a SAS in-database procedure.
- c) Create a SAS dataset copy of the table, load it into CAS memory and summarize with a CAS procedure.
- d) Read the table directly with a SAS summary procedure that executes on the Compute Server.

Answer: b

Question: 10

The dataPreprocess.impute action performs data matrix (variable) imputation. Which imputation methods can be used?

- a) MIDRANGE, MODE, RANDOM, VALUE
- b) MIDRANGE, MODE, RANDOM, CUSTOM
- c) MODE, RANDOM, VALUE, CUSTOM
- d) MIDRANGE, RANDOM, VALUE, CUSTOM

Answer: a

Avail the Study Guide to Pass A00-415 SAS Viya Fundamentals of Programming Exam:

- Find out about the A00-415 syllabus topics. Visiting the official site offers an idea about the exam structure and other important study resources. Going through the syllabus topics help to plan the exam in an organized manner.
- Once you are done exploring the [A00-415 syllabus](#), it is time to plan for studying and covering the syllabus topics from the core. Chalk out the

best plan for yourself to cover each part of the syllabus in a hassle-free manner.

- A study schedule helps you to stay calm throughout your exam preparation. It should contain your materials and thoughts like study hours, number of topics for daily studying mentioned on it. The best bet to clear the exam is to follow your schedule rigorously.
- The candidate should not miss out on the scope to learn from the A00-415 training. Joining the SAS provided training for A00-415 exam helps a candidate to strengthen his practical knowledge base from the certification.
- Learning about the probable questions and gaining knowledge regarding the exam structure helps a lot. Go through the [A00-415 sample questions](#) and boost your knowledge
- Make yourself a pro through online practicing the syllabus topics. A00-415 practice tests would guide you on your strengths and weaknesses regarding the syllabus topics. Through rigorous practicing, you can improve the weaker sections too. Learn well about time management during exam and become confident gradually with practice tests.

Career Benefits:

Passing the A00-415 exam, helps a candidate to prosper highly in his career. Having the certification on the resume adds to the candidate's benefit and helps to get the best opportunities.

Here Is the Trusted Practice Test for the A00-415 Certification

VMEExam.Com is here with all the necessary details regarding the A00-415 exam. We provide authentic practice tests for the A00-415 exam. What do you gain from these practice tests? You get to experience the real exam-like questions made by industry experts and get a scope to improve your performance in the actual exam. Rely on VMEExam.Com for rigorous, unlimited two-month attempts on the [A00-415 practice tests](#), and gradually build your confidence. Rigorous practice made many aspirants successful and made their journey easy towards grabbing the SAS Certified Associate - Programming Fundamentals Using SAS Viya.

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