



Pass A00-415 SAS Viya Fundamentals of Programming Exam: Study Tips & Resources!

**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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Get Ready for the A00-415 Exam:

Prepare effectively for the A00-415 exam using reliable [study strategies and methods](#). Enhance your preparedness, deepen your understanding of the Programming, and enhance your likelihood of achieving success in the SAS Certified Associate - Programming Fundamentals Using SAS Viya with our comprehensive guide. Embark on your path to exam excellence today.

Know More About the SAS Certified Associate - Programming Fundamentals Using SAS Viya Certification:

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

Learn More About the 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
Explain when to use	<ul style="list-style-type: none"> - Size of data

Objective	Details
the CAS server for programming tasks.	- Type of SAS procedure used
Managing Data in CAS (25-30%)	
Explain how to access and use CAS Libraries (caslibs).	<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
Describe how to load data into In-Memory Tables.	<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 • ALTABLE statement - Alternate data loading methods (DATA step, PROC SQL, PROC IMPORT)
Describe how to save and drop In-Memory Tables.	<ul style="list-style-type: none"> - SASHDAT files - PROC CASUTIL <ul style="list-style-type: none"> • SAVE statement • DROPTABLE statement • Suppressing errors
Describe CAS column data types.	<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

Objective	Details
	<ul style="list-style-type: none"> - Determine appropriate column data types for example data
<p>DATA Step and SQL programming in CAS (20-25%)</p>	
<p>Explain how SAS determines where code executes.</p>	<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
<p>Explain threading within the SAS DATA step.</p>	<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
<p>Update DATA step code to run in CAS.</p>	<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)
<p>Update PROC SQL code to run as PROC FEDSQL code.</p>	<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

Objective	Details
<p>CAS-Enabled Procedures and User Defined Formats (20%-25%)</p>	
<p>Identify common procedures that run only on the Compute Server.</p>	<ul style="list-style-type: none"> - PROC FREQ and UNIVARIATE - SG Graphics procedures - Use the log file to identify where code executed
<p>Use common procedures that run in both the CAS and Compute Server.</p>	<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
<p>Use Common summary procedures that run only in CAS.</p>	<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
<p>Discuss how user-defined formats are used and stored in CAS.</p>	<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
<p>CAS Language (CASL) Programming (10-15%)</p>	
<p>Describe the CASL programming</p>	<ul style="list-style-type: none"> - Action Sets - Actions

Objective	Details
language.	- Parameters
Work with tables using CAS action sets.	- 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 <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

Prepare with A00-415 Sample Questions:

Question: 1

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: 2

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: 3

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: 4

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: 5

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: 6

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: 7

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: 8

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: 9

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

Question: 10

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

Tips for Success in the SAS Viya Fundamentals of Programming Exam:

Familiarize Yourself with the A00-415 Exam Format:

Before starting your study regimen, it's crucial to acquaint yourself with the structure of the A00-415 exam. Take a moment to review [the exam syllabus](#), grasp the test format, and pinpoint the main areas of concentration. Having prior knowledge of the exam's layout will assist you in customizing your study strategy effectively.

Create A Study Timetable for the A00-415 Exam:

To prepare efficiently for the A00-415 exam, devise a study schedule that aligns with your lifestyle and preferred learning approach. Allocate dedicated time slots for studying each day, [prioritizing topics](#) according to their significance and your level of proficiency. Maintaining consistency by adhering to your schedule and steering clear of procrastination is imperative.

Diversify Your Study Sources:

Ensure you broaden your study material beyond just one source. Use various resources like textbooks, online courses, practice exams, and study guides to understand the A00-415 exam subjects thoroughly. Each resource provides distinct perspectives and explanations that can enrich your learning journey.

Regular Practice for the A00-415 Exam:

Consistent practice is essential for effective preparation for the A00-415 exam. Engaging in regular practice enables you to strengthen your grasp of essential concepts, improve your problem-solving abilities, and become accustomed to the exam format. Allocate dedicated time to solving practice questions and sample tests to assess your progress accurately.

Allow for Rest and Breaks:

While studying is crucial, taking breaks and rest is equally vital. Pushing yourself too hard without sufficient rest can result in burnout and reduced effectiveness. Incorporate short breaks into your study sessions to recharge and stay focused.

Maintain Organization Throughout Your A00-415 Exam Preparation:

Keep yourself organized as you prepare for the A00-415 exam by monitoring your progress and managing your materials effectively. Ensure your study area remains

neat, utilize folders or digital aids to arrange your notes and resources, and develop a checklist of topics to review. Employing an organized approach will assist you in staying focused and reducing stress levels.

Seek Guidance from Mentors:

Feel free to ask for clarification when you come across confusing or difficult concepts during your study sessions. Seek support from peers, instructors, or online forums to address any uncertainties. Addressing doubts will prevent misunderstandings and ensure you develop a strong [understanding of the material](#).

Regular Review is Crucial for the A00-415 Exam:

Frequent revisiting of material is paramount for retaining information over the long term. Revisit topics you've already covered to strengthen your comprehension and pinpoint areas that need further focus. Regular review sessions will [solidify your understanding](#) and enhance your confidence.

Master Time Management for the A00-415 Exam:

Skillful time management is essential on the exam day to ensure you finish all sections within the designated time limits. During your practice sessions, replicate the conditions of the A00-415 exam and practice managing your time accordingly. Formulate strategies for efficiently addressing each section to optimize your score.

Have A Positive Mindset:

Finally, maintain a positive attitude and have faith in your capabilities. Stay confident in your preparation and trust that you are well-prepared to handle the A00-415 exam. Envision success, remain focused, and approach the exam calmly and objectively.

Benefits of Passing the A00-415 Exam:

- Completing the A00-415 exam unlocks pathways to fresh career prospects and progression within your industry.
- The extensive preparation needed for the A00-415 certification equips you with comprehensive knowledge and practical expertise applicable to your field.
- Possessing the A00-415 certification showcases your mastery and dedication to excellence, garnering acknowledgment from both peers and employers.
- Certified professionals often command higher salaries and have greater potential for earning than those without certification.

- Acquiring the A00-415 certification validates your competence and trustworthiness, fostering confidence among clients, employers, and peers.

Explore the Trusted Practice Exam for the A00-415 Certification:

At AnalyticsExam.com, you'll find comprehensive resources for the A00-415 exam. Our platform offers authentic practice exams tailored specifically for the A00-415 certification. What advantages do these practice exams provide? You'll encounter genuine exam-style questions expertly crafted by industry professionals, allowing you to improve your performance in the exam. Rely on AnalyticsExam.com for rigorous, unlimited access to [A00-415 practice exams](#) for two months, allowing you to boost your confidence steadily. Through focused practice, numerous candidates have successfully streamlined their path to achieving the SAS Certified Associate - Programming Fundamentals Using SAS Viya.

Final Remarks:

Preparing for the A00-415 examination demands commitment, strategic planning, and efficient study methods. Implementing these study suggestions can enrich your preparation, elevate your self-assurance, and increase your likelihood of excelling in the exam. Keep your focus sharp, maintain organization, and believe in your abilities. Best of luck!

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

AnalyticsExam.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 AnalyticsExam.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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