

SAS BASE PROGRAMMING CERTIFICATION
QUESTIONS & ANSWERS

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A00-231

SAS Certified Specialist - Base Programming Using SAS 9.4

40-45 Questions Exam - 725 / 1000 Cut Score - Duration of 135 minutes





Table of Contents

Get Ready for the A00-231 Exam:	2
Know More About the SAS Certified Specialist - Base Programming Using SAS 9.4 Certification:	
Learn More About the A00-231 Syllabus:	2
Access and Create Data Structures (20-25%)	3
Error Handling (15-20%)Generate Reports and Output (15-20%)	
Prepare with A00-231 Sample Questions:	7
Performance-Based Exam Exam: Familiarize Yourself with the A00-231 Exam Format: Create A Study Timetable for the A00-231 Exam:	15
Create A Study Timetable for the A00-231 Exam: Diversify Your Study Sources:	15
Regular Practice for the A00-231 Exam: Allow for Rest and Breaks: Maintain Organization Throughout Your A00-231 Exam Preparation:	15 16
Seek Guidance from Mentors: Regular Review is Crucial for the A00-231 Exam: Master Time Management for the A00-231 Exam:	16 16
Have A Positive Mindset: Benefits of Passing the A00-231 Exam:	
Explore the Trusted Practice Exam for the A00-2	231
Certification:	17
Final Remarks:	17



Get Ready for the A00-231 Exam:

Prepare effectively for the A00-231 exam using reliable <u>study strategies and methods</u>. Enhance your preparedness, deepen your understanding of the Programming, and enhance your likelihood of achieving success in the SAS Certified Specialist - Base Programming Using SAS 9.4 with our comprehensive guide. Embark on your path to exam excellence today.

Know More About the SAS Certified Specialist - Base Programming Using SAS 9.4 Certification:

SAS 9.4 Base Programming - Performance-Based Exam	
A00-231	
135 minutes	
40-45	
725 / 1000	
\$180 (USD)	
SAS Programming 1: Essentials SAS Programming 2: Data Manipulation Techniques	
Pearson VUE	
SAS Base Programming Specialist Certification Sample Question	
SAS Base Programming Specialist Certification Practice Exam	

Learn More About the A00-231 Syllabus:

•			
Access and Create Data Structures (20-25%)			
Create temporary - Use a DATA step to create a SAS data set from an ex	isting SAS		
and permanent SAS data set.			



Objective	Details		
data sets.			
Investigate SAS	- Use a LIBNAME statement to assign a library reference name		
data libraries using	to a SAS library.		
base SAS utility	- Investigate a library programmatically using the CONTENTS		
procedures.	procedure.		
	- Access SAS data sets with the SET statement.		
	- Use PROC IMPORT to access non-SAS data sources.		
	 Read delimited and Microsoft Excel (.xlsx) files with PROC IMPORT. 		
Access data.	 Use PROC IMPORT statement options (OUT=, DBMS=, REPLACE) 		
	Use the GUESSINGROWS statement		
	Use the DELIMITER statement.		
	- Use the SAS/ACCESS XLSX engine to read a Microsoft Excel workbook.xlsx file.		
6 1: 646.1.1	- Concatenate data sets.		
Combine SAS data	- Merge data sets one-to-one.		
sets.	- Merge data sets one-to-many.		
Create and	- Explain how SAS stores date and time values.		
manipulate SAS	- Use SAS informats to read common date and time expressions.		
date values.	- Use SAS date and time formats to specify how the values are		
	displayed.		
Control which	- Use the WHERE and IF statements in the DATA step to select		
observations and	observations to be processed.		
variables in a SAS	- Subset variables to be output by using the DROP and KEEP		
data set are	statements.		
processed and	- Use the DROP= and KEEP= data set options to specify columns		
output.	to be processed and/or output		
Manage Data (35-40%)			
Sort observations	- Use the SORT Procedure to re-order observations in place or		



Objective	Details			
in a SAS data set.	output to a new dataset with the OUT= option.			
	- Remove duplicate observations with the SORT Procedure.			
Conditionally	- Use IF-THEN/ELSE statements to process data conditionally.			
execute SAS	- Use DO and END statements to execute multiple statements			
statements.	conditionally.			
Use assignment	- Create new variables and assign a value.			
statements in the	- Assign a new value to an existing variable.			
DATA step.	- Assign the value of an expression to a variable.			
	- Assign a constant date value to a variable.			
Modify variable	- Change the names of variables by using the RENAME= data			
attributes using	set option.			
options and	- Use LABEL and FORMAT statements to modify attributes in a			
statements in the	DATA step.			
DATA step.	- Define the length of a variable using the LENGTH statement.			
Accumulate sub-	- Use the BY statement to aggregate by subgroups.			
totals and totals	- Use first. and last. processing to identify where groups begin			
using DATA step	and end.			
statements.	- Use the RETAIN and SUM statements.			
	- Use SAS functions such as SCAN, SUBSTR, TRIM, COMPRESS,			
	UPCASE, and LOWCASE to perform tasks such as the tasks			
	shown below.			
	Replace the contents of a character value.			
Use SAS functions	Remove unwanted characters from strings.			
to manipulate	Search a character value and extract a portion of the			
character data,	value.			
numeric data, and SAS date values.	Convert a character value to upper or lowercase.			
	- Use SAS numeric functions such as SUM, MEAN, RAND,			
	SMALLEST, LARGEST, ROUND, and INT.			
	- Create SAS date values by using the functions MDY, TODAY,			
	DATE, and TIME.			
	- Extract the month, year, and interval from a SAS date value			



Objective	Details		
	by using the functions YEAR, QTR, MONTH, and DAY.		
	- Perform calculations with date and datetime values and time		
	intervals by using the functions INTCK, INTNX, and YRDIF.		
	- Use variable lists to efficiently reference multiple variables (OF		
	operator, :,-,).		
Han CAC from ation o	- Explain the automatic conversion that SAS uses to convert		
Use SAS functions	values between data types.		
to convert	- Use the INPUT function to explicitly convert character data		
character data to	values to numeric values.		
numeric and vice	- Use the PUT function to explicitly convert numeric data values		
versa.	to character values.		
	- Explain how iterative DO loops function.		
	- Use DO loops to eliminate redundant code and to perform		
Process data using	repetitive calculations.		
DO LOOPS.	- Use conditional DO loops.		
	- Use nested DO loops.		
Do otros characteristics CAC	- Select variables to transpose with the VAR statement.		
Restructure SAS	- Rename transposed variables with the ID statement.		
data sets with	- Process data within groups using the BY statement.		
PROC TRANSPOSE.	- Use PROC TRANSPOSE options (OUT=, PREFIX= and NAME=).		
Use macro	- Create macro variables with the %LET statement.		
variables to	- Use macro variables within SAS programs.		
simplify program	- Use the macro variable name dot delimiter (.)		
maintenance.	(*)		
Error Handling (15-20%)			
	- Use the PUTLOG Statement in the Data Step to help identify		
Identify and	logic errors.		
resolve	- Use PUTLOG to write the value of a variable, formatted values,		
programming logic	or to write values of all variables.		
errors.	- Use PUTLOG with Conditional logic.		
	- Use temporary variables N and ERROR to debug a DATA step.		



Objective	Details		
	- Identify the characteristics of SAS statements.		
Recognize and	- Define SAS syntax rules including the typical types of syntax		
correct syntax	errors such as misspelled keywords, unmatched quotation		
errors.	marks, missing semicolons, and invalid options.		
	- Use the log to help diagnose syntax errors in a given program.		
Gene	erate Reports and Output (15-20%)		
	- Modify the default behavior of PROC PRINT by adding		
	statements and options such as		
Generate list	use the VAR statement to select and order variables.		
reports using the	calculate totals with a SUM statement.		
PRINT procedure.	 select observations with a WHERE statement. 		
	use the ID statement to identify observations.		
	 use the BY statement to process groups. 		
	 use the NOOBS and LABEL options. 		
	·		
	- Produce one-way and two-way frequency tables with the FREQ procedure.		
	- Enhance frequency tables with options (NLEVELS, ORDER=).		
Generate summary	- Use PROC FREQ to validate data in a SAS data set.		
reports and	- Calculate summary statistics and multilevel summaries using		
frequency tables	the MEANS procedure.		
using base SAS	WAVE CLASS VAR OUTDUT I		
procedures.	WAYS, CLASS, VAR, OUTPUT statements		
	- Enhance summary tables with options.		
	- Identify extreme and missing values with the UNIVARIATE		
	procedure.		
Enhance reports	- Use PROC FORMAT to define custom formats.		
using user-defined	• VALUE statement		
formats, titles,	VALUE statement		
footnotes, and SAS	CNTLIN= option		
System	- Use the LABEL statement to define descriptive column		
	headings.		



Objective	Details			
reporting options.	- Control the use of column headings with the LABEL and			
	SPLIT=options in PROC PRINT			
	output.			
	- Identify the Output Delivery System destinations.			
Generate reports	- Create HTML, PDF, RTF, XLSX, and PPTX files with ODS			
using ODS	statements.			
statements.	- Use the STYLE=option to specify a style template.			
	- Generate comma separated value (CSV) files with ODS			
	statements			
	- Create a simple raw data file by using the EXPORT procedure			
	as an alternative to the			
	DATA step.			
	Control the export file format with common DBMS			
Export data	identifiers: (csv, jmp, tab,			
	dlm).			
	- Export data to Microsoft Excel using the SAS/ACCESS XLSX			
	engine.			

Prepare with A00-231 Sample Questions:

Question: 1

Which statement about SAS libraries is true?

Select one:

- a) You refer to a SAS library by a logical name called a libname.
- b) A SAS library is a collection of one or more SAS files that are referenced and stored as a unit.
- c) A single SAS library must contain files that are stored in different physical locations.
- d) At the end of each session, SAS deletes the contents of all SAS libraries.

Answer: b



The following SAS program is submitted:

proc means data=work.schools median;

<insert statement(s) here>

run;

Assume that Work. Schools has two numeric variables and the following PROC MEANS report is produced:

	N		
location	Obs	Variable	Median
school1	3	students	103.0000000
		teachers	8.00000000
school2	3	students	100.0000000
		teachers	8.0000000

Which of the following SAS statements completes the program and creates the desired report?

Select one:

- a) by location;
- b) group by location;
- c) class location;
- d) by location; id location;

Answer: c



A PROC PRINT report was created with the following title:

Asia Sports Vehicle Summary

After the PROC PRINT report is run, a programmer would next like to produce a PROC

FREQ report with the following title:

Asia Sports Vehicle Summary

Distribution by Make

Which statement(s) would produce the new report titles?

Select one:

- a) title "Distribution by Make";
- b) title "Asia Sports Vehicle Summary";

title "Distribution by Make";

c) title "Asia Sports Vehicle Summary";

title2 "Distribution by Make";

d) title "Asia Sports Vehicle Summary";

subtitle "Distribution by Make";

Answer: c

Question: 4

The variable Name in the data set Employee has a \$CHAR10. format. The variable Name in the data set Sales has a \$CHAR15. format.

The following SAS program is submitted:

data both:

merge employee sales;

by name;

run;

What is the format for the variable Name in the data set Both?

Select one:

- a) no format defined
- b) \$CHAR
- c) \$CHAR10
- d) \$CHAR15

Answer: c



Assume that Work. Ds1 and Work.Ds2 exist and the following SAS program is submitted:
ods pdf file='results.pdf';
proc print data=work.ds1;
run;
proc freq data=work.ds1;
proc freq data=work.ds2;
run;
ods pdf close;
How many PDF files are created?

Select one:

- a) 1 PDF file with all the output combined
- b) 2 PDF files -- one file for each data set used
- c) 2 PDF files -- one for the PRINT output and one for the FREQ output
- d) 3 PDF files -- one per procedure request

Answer: a

Question: 6

Assume that Sasuser. One does not exist and that the following SAS program is submitted at the beginning of a new SAS session:

data sasuser.one; x=1; y=27; output one; run;

Select one:

- a) The data set Sasuser. One is created with 2 variables and 3 observations.
- b) The data set Sasuser. One is created with 2 variables and 0 observations.
- c) The data set Work. One is created with 2 variables and 1 observation.
- d) The data set Sasuser. One is created with 2 variables and 1 observation.

Answer: b



Given the following data set:

subjid ae_txt1 ae_sev1 ae_txt2 ae_sev2 ae_txt3 ae_sev3

1001 FEVER MILD HEADACHE MODERATE NAUSEA MILD

1002 GOUT SEVERE FEVER MODERATE HEADACHE SEVERE

Which type of statement was included as a component of a transpose procedure step to produce the following data set?

subjid COL1

1001 FEVER

1001 MILD

1001 HEADACHE

1001 MODERATE

1001 NAUSEA

1001 MILD

1002 GOUT

1002 SEVERE

1002 FEVER

1002 MODERATE

1002 HEADACHE

1002 SEVERE

Select one:

- a) CLASS
- b) ID
- c) IDLABEL
- d) VAR

Answer: d



```
The following SAS program is submitted:
data WORK.NEW;
year=2011;
amount=5000;
do i=1 to 5;
year=year+1;
do qtr=1 to 4;
amount=amount*1.1;
end;
end;
run;
proc print data=WORK.NEW noobs;
run;
Which output is correct?
   a) year amount i qtr
   2016 33637.50 6 5
   b) year amount i qtr
   2017 33637.50 6 5
   c) year amount i qtr
   2016 33637.50 5 5
```

Answer: a

Question: 9

d) year amount i qtr 2016 33637.50 6 4

Given the following SAS data set WORK.CLASS:

Name	Gender	Age
Anna	F	23
Ben	М	25
Bob	М	21
Brian	M	27
Edward	M	26
Emma	F	32
Joe	М	34



Sam F 32 Tom M 24

The following program is submitted:

data WORK.MALES WORK.FEMALES(drop=age);

set WORK.CLASS;

drop gender;

if Gender="M" then output WORK.MALES;

else if Gender="F" then output WORK.FEMALES;

run;

How many variables are in the data set WORK.MALES?

Select one:

- a) The program does not execute due to a syntax error.
- b) 1
- c) 2
- d) 3

Answer: c

Question: 10

Given the SAS data set WORK.ONE:

```
X Y Z
```

. . .

1 A 27

1 A 33

1 B 45

2 A 52

2 B 69

3 B 70

4 A 82

4 C 91

The following SAS program is submitted:

data WORK.TWO;

set WORK.ONE;

by X Y;

if First.Y;

run;

proc print data=WORK.TWO noobs;

run;

Which report is produced?



Select one:

- a) X Y Z
- -- -- --
- 1 B 45
- 2 A 52
- 2 B 69
- 3 B 70
- 4 A 82
- 4 C 91
- b) X Y Z
- -- -- --
- 1 A 27
- 1 B 45
- 2 A 52
- 2 B 69
- 3 B 70
- 4 A 82
- 4 C 91
- c) X Y Z
- -- -- --
- 1 A 33
- 1 B 45
- 2 A 52
- 2 B 69
- 3 B 70
- 4 A 82
- 4 C 91
- d) X Y Z
- -- -- --
- 1 A 27
- 1 B 45
- 2 A 52
- 2 B 69
- 4 A 82
- 4 C 91

Answer: b



Tips for Success in the SAS 9.4 Base Programming - Performance-Based Exam Exam:

Familiarize Yourself with the A00-231 Exam Format:

Before starting your study regimen, it's crucial to acquaint yourself with the structure of the A00-231 exam. Take a moment to <u>review the exam syllabus</u>, 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 A00-231 Exam:

To prepare efficiently for the A00-231 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 A00-231 exam subjects thoroughly. Each resource provides distinct perspectives and explanations that can enrich your learning journey.

Regular Practice for the A00-231 Exam:

Consistent practice is essential for effective preparation for the A00-231 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 A00-231 Exam Preparation:

Keep yourself organized as you prepare for the A00-231 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 A00-231 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 A00-231 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 A00-231 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 A00-231 exam. Envision success, remain focused, and approach the exam calmly and objectively.

Benefits of Passing the A00-231 Exam:

- Completing the A00-231 exam unlocks pathways to fresh career prospects and progression within your industry.
- The extensive preparation needed for the A00-231 certification equips you with comprehensive knowledge and practical expertise applicable to your field.



- Possessing the A00-231 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 A00-231 certification validates your competence and trustworthiness, fostering confidence among clients, employers, and peers.

Explore the Trusted Practice Exam for the A00-231 Certification:

At analyticsexam.com, you'll find comprehensive resources for the A00-231 exam. Our platform offers authentic practice exams tailored specifically for the A00-231 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 A00-231 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 Specialist - Base Programming Using SAS 9.4.

Final Remarks:

Preparing for the A00-231 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 A00-231 Certification

AnalyticsExam.Com is here with all the necessary details regarding the A00-231 exam. We provide authentic practice tests for the A00-231 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 **A00-231 practice tests**, and gradually build your confidence. Rigorous practice made many aspirants successful and made their journey easy towards grabbing the SAS Certified Specialist - Base Programming Using SAS 9.4.

Start Online Practice of A00-231 Exam by Visiting URL

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