SAS A00-282

SAS CLINICAL TRIALS PROGRAMMING PROFESSIONAL CERTIFICATION QUESTIONS & ANSWERS

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A00-282

SAS Clinical Trials Programming Professional

60-70 Questions Exam – 68% Cut Score – Duration of 110 minutes

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Discover More about the A00-282 Certification

Are you interested in passing the SAS A00-282 exam? First discover, who benefits from the A00-282 certification. The A00-282 is suitable for a candidate if he wants to learn about Programming. Passing the A00-282 exam earns you the SAS Clinical Trials Programming Professional title.

While preparing for the A00-282 exam, many candidates struggle to get the necessary materials. But do not worry; your struggling days are over. The A00-282 PDF contains some of the most valuable preparation tips and the details and instant access to useful **A00-282 study materials just at one click**.

SAS A00-282 SAS Clinical Trials Programming Professional Certification Details:

Exam Name	SAS Certified Professional - Clinical Trials Programming Using SAS 9.4
Exam Code	A00-282
Exam Duration	110 minutes
Exam Questions	60-70
Passing Score	68%
Exam Price	$180 (USD)
Books	**Fundamentals of Programming in SAS** **SAS Programming in the Pharmaceutical Industry** **Implementing CDISC Using SAS** **Validating Clinical Trial Data Reporting with SAS**
Exam Registration	**Pearson VUE**
Sample Questions	**SAS Clinical Trials Programming Professional Certification Sample Question**
Practice Exam	**SAS Clinical Trials Programming Professional Certification Practice Exam**

A00-282 Syllabus:

Objective	Details	Weight
Clinical Trials Process	- Describe the clinical research process (phases, key roles, key organizations). - Derive programming requirements from an SAP and an annotated Case Report Form.	**5%**
Clinical Trials Data Structures	- Identify the clinical trials domains. - Identify key CDISC principals and terms. - Describe the structure and purpose of the CDISC SDTM data model. - Describe the structure and purpose of the CDISC ADaM data model. - Trace data through the full programming process, from raw data to any of the mapped domains.	**10%**
Regulatory Submissions	- Apply regulatory requirements to exported SAS data sets (SAS V5 requirements). - Describe the contents and purpose of define.xml.	**5%**
Manage Clinical Trials Data	- Access DICTIONARY Tables using the SQL procedure. - Examine and explore clinical trials input data (find outliers, missing vs. zero values). • Use DATA STEP functions and features to find anomalous values or to find potential errors.	**5%**
Transform or Summarize Clinical Trials Data	- Derive variables by applying categorization and windowing techniques to existing variables. - Store dates in a form that is acceptable for use with clinical trials • Determine if dates are stored in accordance with ISO 8601 standards • Use functions to store dates using ISO 8601 standards - Reshape SAS data sets: • with PROC TRANSPOSE • with arrays in the DATA step. - Calculate 'change from baseline' results. - Obtain counts of events in clinical trials. - Use FIRST./LAST. variables	**15%**
Apply Statistical Procedures for Clinical Trials	- Use SAS procedures to obtain descriptive statistics for clinical trials data (FREQ, UNIVARIATE, MEANS, SUMMARY). - Given information on data types (categorical vs. quantitative), determine whether a procedure can produce the requested analysis. - Given sample code from a statistical procedure, identify syntax and/or semantic errors. (PROC FREQ, PROC TTEST, GLM, REG) - Create output data sets from statistical procedures.	**15%**

Objective	Details	Weight
	• ODS OUTPUT • OUTPUT statements or options within a procedure - Follow instructions to be able to program for both Safety and Efficacy data.	
Macro Programming for Clinical Trials	- Create macro variables and set macro parameters. - Access user-defined and automatic variables. - Automate repeated tasks by defining and calling macros. - Use system options to debug macros and display values of macro variables in the SAS log (MPRINT, SYMBOLGEN, MLOGIC).	**15%**
Report Clinical Trials Results	- Use PROC REPORT to produce tables and listings for clinical trials reports. • Apply options in the REPORT statement to modify the report style. • Use COLUMN statement to select report items, assign aliases to report items, nest report items, and create headers for one or more report items. • Use DEFINE statement to apply options to report items. E.g., usages, styles, sort order. • Use BREAK and RBREAK statements to add summary rows. • Use COMPUTE blocks to execute programming statements during the creation of the report. • Use LINE statements to insert new lines into a report. • Use CALL DEFINE statements to modify the contents or aesthetics of the report. • Produce a data set using the OUT= option. - Use ODS statements to produce and augment clinical trials reports. • Use ODS TRACE to identify output object attributes. • Use ODS SELECT/EXCLUDE to produce desired output objects. • Use ODS statements to open/close an ODS destination (e.g., PDF, RTF, POWERPOINT, LISTING, WORD) and control destination-specific settings. (e.g., resolution, number of columns, pagination) • Use the ODS GRAPHICS statement to control graphics environment options.	**10%**

Objective	Details	Weight
	- Create and work with graphs • Use PROC SGPLOT or PROC SGPANEL to create standard graphs using VBARBASIC/HBARBASIC, VBARPARM/HBARPARM, VBOX/HBOX, HISTOGRAM, DENSITY, SCATTER, SERIES, HIGHLOW, WATERFALL) • Use statements and options in PROC SGPLOT and PROC SGPANEL to create graphs based on grouped data and modify their appearance. • Create graphs that include an overlay of multiple graphical elements, including reference lines • Use statements and options to modify the attributes of graphical elements, customize axes, and customize legends.	
Validate Clinical Trial Data Reporting	- Explain the principles of programming validation in the clinical trial industry. - Utilize the log file to validate clinical trial data reporting. - Use programming techniques to validate clinical trial data reporting (PROC COMPARE, MSGLEVEL). - Determine why two independent validation programs led to a different result. - Identify elements that are not validated when comparing via PROC COMPARE. (titles, footnotes, and attributes such as formats or labels depending on how they are added to a PROC-like REPORT) - Identify and Resolve data, syntax, and logic errors.	**20%**

Broaden Your Knowledge with SAS A00-282 Sample Questions:

Question: 1

What information can be found in the SAS Dictionary tables?

There are two correct answer, Please select two correct answer.

  a) datasets contained within a specified library
  b) values contained within a specified format
  c) variables contained within a specified dataset
  d) values contained within a specified variable

Answer: a, c

Question: 2

Review the following procedure format:

PROC TTEST date=date;
class group-variable;
var variable;
run;

What is the required type of data for the variable in this procedure?

a) Character
b) Continuous
c) Categorical
d) Treatment

Answer: b

Question: 3

Given the following data set:

```
SUBJID      GENDER     AGE     TRT
4           M          63      3
4           M          63      1
5           F          72      4
1           F          45      1
3           M          57      2
2           F          39      1
3           M          57      2
```

The following output data set was produced:

```
SUBJID      GENDER     AGE     TRT
3           M          57      1
3           M          57      1
4           M          63      2
4           M          63      0
5           F          72      3
```

Which SAS program produced this output?

a) proc sort data=one(where=(age>50)) out=two;
   by subjid;
   run;
b) proc sort data=one(if=(age>50)) out=two;
   by subjid;
   run;
c) proc sort data=one out=two;
   where=(age>50) ;
   by subjid;
   run;
d) proc sort data=one out=two;
   if age>50;
   by subjid;
   run;

Answer: a

Question: 4

The following question will ask you to provide a line of missing code. The following program is submitted to output observations from data set ONE that have more than one record per patient.

```
proc sort data=one out=two;
   by subjid;
run;
data two;
   set two;
 <insert code here>
   if (first.subjid ne 1 or last.subjid ne 1) then output ;
run ;
```

Please enter the line of code that will correctly complete the program.

Note: Case is ignored. Do not add leading or trailing spaces to your answer.

   a) BYSUBJID;
   b) id;
      PTON run;
   c) BYSUBJID;
      BYSUBJID;
   d) BYSUBJID;
      run;

Answer: a

Question: 5

Which SAS program will apply the data set label 'Demographics' to the data set named DEMO?

   a) data demo (label='Demographics');
      set demo;
      run;
   b) data demo;
      set demo (label='Demographics');
      run;
   c) data demo (label 'Demographics') ;
      set demo;
      run;
   d) data demo; set demo;
      label demo= 'Demographics' ;
      run;

Answer: a

Question: 6

Vital Signs are a component of which SDTM class?

    a) Special Purpose
    b) Events
    c) Interventions
    d) Findings

Answer: d

Question: 7

The following SAS program is submitted:
proc univariate date=work.STUDY;
by VISIT;
class REGION TREAT;
var HBA1C GLUCOS;
run;

You want to store all calculated means and standard deviations in one SAS data set. Which statement must be added to the program?

    a) output mean std;
    b) ods output mean=m1 m2 std=s1 s2;
    c) output out=WORK.RESULTS mean=m1 m2 std=s1 s2;
    d) ods output out=WORK.RESULTS mean=m1 m2 std=s1 s2;

Answer: c

Question: 8

Which program will report all created output objects in the log?

    a) proc ttest data=WORK.DATA1 ods=trace;
       class TREAT;
       var RESULTS;
       run;
    b) ods trace on;
       proc ttest data=WORK.DATA1;
       class TREAT;
       var RESULTS;
       run;
    c) ods trace=log;
       proc ttest data=WORK.DATA1;
       class TREAT;
       var RESULTS;
       run;
    d) ods trace log;
       proc ttest data=WORK.DATA1;
       class TREAT;
       var RESULTS;
       run;

Answer: b

Question: 9

Given the data set WORK.BP with the following variable list:

```
#    Variable   Type    Len    Label
1    DIABP      Num      8     Diastolic Blood Pressure
2    PTNO       Char     4     Patient Number
3    SYSBP      Num      8     Systolic Blood Pressure
```

The following SAS program is submitted:

```
ods select ExtremeObs;
proc univariate data=WORK.BP;
  var DIABP;
  id PTNO;
run;
```

Which output will be created by the program?

A.

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
68	190	119	51

B.

Extreme Observations					
Lowest			Highest		
Value	PTNO	Obs	Value	PTNO	Obs
68	6007	190	119	2710	51

C.

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
62	129	112	60
63	8	114	4
63	133	114	147
65	22	115	287
68	190	119	51

D.

Extreme Observations					
Lowest			Highest		
Value	PTNO	Obs	Value	PTNO	Obs
62	5023	129	112	3020	60
63	1890	8	114	1701	4
63	5029	133	114	5109	147
65	2201	22	115	8077	287
68	6007	190	119	2710	51

   a) Option A
   b) Option B
   c) Option C
   d) Option D

Answer: d

Question: 10

What is the main focus of Good Clinical Practices (GCP)?

a) harmonized data collection
b) standard analysis practices
c) protection of subjects
d) standard monitoring practices

Answer: c

Avail the Study Guide to Pass SAS A00-282 SAS Clinical Trials Programming Professional Exam:

- Find out about the A00-282 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 **A00-282 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 A00-282 training. Joining the SAS provided training for A00-282 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 **A00-282 sample questions** and boost your knowledge

- Make yourself a pro through online practicing the syllabus topics. A00-282 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 A00-282 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 A00-282 Certification

VMExam.Com is here with all the necessary details regarding the A00-282 exam. We provide authentic practice tests for the A00-282 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 VMExam.Com for rigorous, unlimited two-month attempts on the **A00-282 practice tests**, and gradually build your confidence. Rigorous practice made many aspirants successful and made their journey easy towards grabbing the SAS Clinical Trials Programming Professional.

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