Pass A00-282 SAS Clinical Trials Programming Exam: Study Tips & Resources!

SAS CLINICAL TRIALS PROGRAMMING CERTIFICATION QUESTIONS & ANSWERS

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A00-282

SAS Certified Professional - Clinical Trials Programming Using SAS 9.4

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

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Get Ready for the A00-282 Exam:

Prepare effectively for the A00-282 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 Professional - Clinical Trials Programming Using SAS 9.4 with our comprehensive guide. Embark on your path to exam excellence today.

Know More About the SAS Certified Professional - Clinical Trials Programming Using SAS 9.4 Certification:

Exam Name	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 / Training	**SAS Programming 1: Essentials** **SAS Programming 2: Data Manipulation Techniques** **SAS Report Writing 1: Essentials** **SAS SQL 1: Essentials** **SAS Macro Language 1: Essentials** **Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression**
Exam Registration	**Pearson VUE**
Sample Questions	**SAS Clinical Trials Programming Professional Certification Sample Question**
Practice Exam	**SAS Clinical Trials Programming Professional Certification Practice Exam**

Learn More About the A00-282 Syllabus:

Objective	Details	Weight
Clinical Trials Process	- Describe the clinical research process (phases, key roles, key organizations).	5%

Objective	Details	Weight
	- Derive programming requirements from an SAP and an annotated Case Report Form.	
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.	15%

Objective	Details	Weight
	- Use FIRST./LAST. variables	
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. • ODS OUTPUT • OUTPUT statements or options within a procedure - Follow instructions to be able to program for both Safety and Efficacy data.	15%
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	10%

Objective	Details	Weight
	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. - 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	

Objective	Details	Weight
	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%

Prepare with A00-282 Sample Questions:

Question: 1

When writing a validation program using independent programming, which two actions conform to good programming practices? (Choose two.)

    a) Ensure the production program has been run prior to compare.
    b) Delete subjects from the production side that are causing differences with the validation data set.
    c) Copy statistical code directly from the SAP.
    d) Copy statistical code directly from the production program.

Answer: a, c

Question: 2

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: 3

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: 4

Vital Signs are a component of which SDTM class?

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

Answer: d

Question: 5

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: 6

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: 7

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

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

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

b) data demo (label 'Demographics') ;
   set demo;
   run;

c) data demo; set demo;
   label demo= 'Demographics' ;
   run;

Answer: a

Question: 8

Which code segment includes a statement that would reset the graphics counter and ensure a 6in by 4in image is produced?

a) ods graphics / counter = 1 width = 6in height = 4in;
b) ods graphics / width = 6in height = 4in reset;
c) ods graphics / reset width = 6in height = 4in;
d) ods graphics / width = 6in height = 4in counter = 1 ;

Answer: c

Question: 9

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

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

Tips for Success in the Clinical Trials Programming Using SAS 9.4 Exam:

Familiarize Yourself with the A00-282 Exam Format:

Before starting your study regimen, it's crucial to acquaint yourself with the structure of the A00-282 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 A00-282 Exam:

To prepare efficiently for the A00-282 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 A00-282 exam subjects thoroughly. Each resource provides distinct perspectives and explanations that can enrich your learning journey.

Regular Practice for the A00-282 Exam:

Consistent practice is essential for effective preparation for the A00-282 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 A00-282 Exam Preparation:

Keep yourself organized as you prepare for the A00-282 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 A00-282 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 A00-282 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 A00-282 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 A00-282 exam. Envision success, remain focused, and approach the exam calmly and objectively.

Benefits of Passing the A00-282 Exam:

- Completing the A00-282 exam unlocks pathways to fresh career prospects and progression within your industry.
- The extensive preparation needed for the A00-282 certification equips you with comprehensive knowledge and practical expertise applicable to your field.
- Possessing the A00-282 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 A00-282 certification validates your competence and trustworthiness, fostering confidence among clients, employers, and peers.

Explore the Trusted Practice Exam for the A00-282 Certification:

At AnalyticsExam.com, you'll find comprehensive resources for the A00-282 exam. Our platform offers authentic practice exams tailored specifically for the A00-282 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 **A00-282 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 Professional - Clinical Trials Programming Using SAS 9.4.

Final Remarks:

Preparing for the A00-282 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!

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Here Is the Trusted Practice Test for the A00-282 Certification

AnalyticsExam.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 AnalyticsExam.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 Certified Professional - Clinical Trials Programming Using SAS 9.4.

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