

Pass A00-226 SAS Advanced Analytics Professional Exam: Study Tips & Resources!

SAS ADVANCED ANALYTICS PROFESSIONAL
CERTIFICATION QUESTIONS & ANSWERS

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A00-226

[SAS Specialist - Text Analytics, Time Series, Experimentation and Optimization](#)

50-55 Questions Exam – 68% Cut Score – Duration of 110 minutes

Table of Contents

Get Ready for the A00-226 Exam:	2
Know More About the SAS Specialist - Text Analytics, Time Series, Experimentation and Optimization Certification:	2
Learn More About the A00-226 Syllabus:	3
Prepare with A00-226 Sample Questions:	6
Tips for Success in the SAS Text Analytics, Time Series, Experimentation and Optimization Exam:	9
Familiarize Yourself with the A00-226 Exam Format:	9
Create A Study Timetable for the A00-226 Exam:.....	9
Diversify Your Study Sources:	9
Regular Practice for the A00-226 Exam:	9
Allow for Rest and Breaks:	10
Maintain Organization Throughout Your A00-226 Exam Preparation:	10
Seek Guidance from Mentors:	10
Regular Review is Crucial for the A00-226 Exam:	10
Master Time Management for the A00-226 Exam:	10
Have A Positive Mindset:	10
Benefits of Passing the A00-226 Exam:	11
Explore the Trusted Practice Exam for the A00-226 Certification:	11
Final Remarks:	11

Get Ready for the A00-226 Exam:

Prepare effectively for the A00-226 exam using reliable [study strategies and methods](#). Enhance your preparedness, deepen your understanding of the Advanced Analytics Professional, and enhance your likelihood of achieving success in the SAS Specialist - Text Analytics, Time Series, Experimentation and Optimization with our comprehensive guide. Embark on your path to exam excellence today.

Know More About the SAS Specialist - Text Analytics, Time Series, Experimentation and Optimization Certification:

Exam Name	SAS Text Analytics, Time Series, Experimentation and Optimization
Exam Code	A00-226
Exam Duration	110 minutes
Exam Questions	50-55 multiple choice or short answer
Passing Score	68
Exam Price	\$180 (USD)
Training	SAS Academy for Data Science: Advanced Analytics Professional Subscription Text Analytics Using SAS Text Miner Time Series Modeling Essentials Experimentation in Data Science Optimization Concepts for Data Science
Exam Registration	Pearson VUE
Sample Questions	SAS Advanced Analytics Professional Certification Sample Question
Practice Exam	SAS Advanced Analytics Professional Certification Practice Exam

Learn More About the A00-226 Syllabus:

Objective	Details
Text Analytics - 30%	
Create data sources for text mining	<ul style="list-style-type: none"> - Create data sources that can be used by SAS Enterprise Miner Projects - Identify data sources that are relevant for text mining
Import data into SAS Text Analytics	<ul style="list-style-type: none"> - Process document collections and create a single SAS data set for text mining using the Text Import Node - Merge a SAS data set created from Text Importer with another SAS data set containing target information and other non-text variables - Compare two models, one using only conventional input variables and another using the conventional inputs and some text mining variables
Use text mining to support forensic linguistics using stylometry techniques	
Retrieve information for Analysis	<ul style="list-style-type: none"> - Use the Interactive Text Filter Viewer for information retrieval - Use the Medline medical abstracts data for information retrieval
Parse and quantify Text	<ul style="list-style-type: none"> - Provide guidelines for using weights - Use SVD to project documents and terms into a smaller dimension metric space - Discuss Text Topic and Text Cluster results in light of the SVD
Perform predictive modeling on text data	<ul style="list-style-type: none"> - Explain the trade-off between predictive power and interpretability - Set up Text Cluster and Text Topic nodes to affect this trade-off - Perform predictive modeling using the Text Rule Builder node
Use the High-Performance (HP) Text Miner Node	<ul style="list-style-type: none"> - Identify the benefits of the HP Text Miner node - Use the HPTMINE procedure
Time Series - 30%	
Identify and define time series characteristics, components and the families of time	<ul style="list-style-type: none"> - Transform transactional data into time series data (Accumulate) using PROC TIMESERIES <ul style="list-style-type: none"> • Transactional Data Accumulation and Time Binning - Define the systematic components in a time series (level, seasonality, trend, irregular, exogenous, cycle)

Objective	Details
series models	<ul style="list-style-type: none"> - Describe the decomposition of time series variation (noise and signal) - List three families of time series models <ul style="list-style-type: none"> • exponential smoothing (ESM) • autoregressive integrated moving average with exogenous variables (ARIMAX) • unobserved components (UCM) - Identify the strengths and weaknesses of the three model types <ul style="list-style-type: none"> • usability • complexity • robustness • ability to accommodate dynamic regression effects
Diagnose, fit and interpret ARIMAX Models	<ul style="list-style-type: none"> - Analyze a time series with respect to signal (system variation) and noise (random variation) - Explain the importance of the Autocorrelation Function Plot and the White Noise Test in ARMA modeling - Compare and contrast ARMA and ARIMA models - Define a stationary time series and discuss its importance - Describe and identify autoregressive and moving average processes - Estimate an order 1 autoregressive model - Evaluate estimates and goodness-of-fit statistics - Explain the X in ARMAX - Relate linear regression with time series regression models - Recognize linear regression assumptions - Explain the relationship between ordinary multiple linear regression models and time series regression models - Explain how to use a holdout sample to forecast - Given a scenario, use model statistics to evaluate forecast accuracy - Given a scenario, use sample time series data to exemplify forecasting concepts
Diagnose, fit and interpret Exponential Smoothing Models	<ul style="list-style-type: none"> - Describe the history of ESM - Explain how ESMs work and the types of systematic components they accommodate - Describe each of the seven types of ESM formulas - Given a sample data set, choose the best ESM using a hold-out sample, output fit statistics, and forecast data sets
Diagnose, fit and interpret Unobserved	<ul style="list-style-type: none"> - Describe the basic component models: level, slope, seasonal - Be able to explain UCM strengths and when it would be good to

Objective	Details
Components Models	use UCM <ul style="list-style-type: none"> • Example: Visualization of component variation - Given a sample scenario, be able to explain how you would build a UCM <ul style="list-style-type: none"> • Adding and deleting component models and interpreting the diagnostics
Experimentation & Incremental Response Models - 20%	
Explain the role of experiments in answering business questions	- Determine whether a business question should be answered with a statistical model - Compare observational and experimental data - List the considerations for designing an experiment - Control the experiment for nuisance variables - Explain the impact of nuisance variables on the results of an experiment - Identify the benefits of deploying an experiment on a small scale
Relate experimental design concepts and terminology to business concepts and terminology	- Define Design of Experiments (DOE) terms (response, factor, effect, blocking, etc) - Map DOE terms to business marketing terms - Define and interpret interactions between factors - Compare one-factor-at-a-time (OFAT) experiment methods to factorial methods - Describe the attributes of multifactor experiments (randomization, orthogonality, etc) - Identify effects in a multifactor experiment - Explain the difference between blocks and covariates
Explain how incremental response models can identify cases that are most responsive to an action	- Design the experimental structure to assess the impact of the model versus the impact of the treatment - Explain the effect of both the model and the message from assessment experiment data - Describe the standard customer segments with respect to marketing campaign targets - Explain the value of using control groups in data science - Define an incremental response
Use the Incremental Response node in SAS Enterprise Miner	- List the required data structure components of the Incremental Response node - Explain Net Information Value (NIV) and Penalized Net Information Value (PNIV) and their use in SAS Enterprise Miner - Explain Weight of Evidence (WOE) and Net Weight of Evidence (NWOE) and their use in SAS Enterprise Miner - Use stepwise regression with the Incremental Response node

Objective	Details
	<ul style="list-style-type: none"> - Adjust model properties for various types of incremental revenue analysis - Compare variable/constant revenue and cost models - Understand and explain the value of difference scores in the combined incremental response model - Use difference scores to compare treatment and control
Optimization - 20%	
Optimize linear programs	<ul style="list-style-type: none"> - Explain local properties of functions that are used to solve mathematical optimization problems - Use the OPTMODEL procedure to enter and solve simple linear programming problems - Formulate linear programming problems using index sets and arrays of decision variables, families of constraints, and values stored in parameter arrays - Modify a linear programming problem (changing bounds or coefficients, fixing variables, adding variables or constraints) within the OPTMODEL procedure - Use the Data Envelope Analysis (DEA) linear programming technique
Optimize nonlinear programs	<ul style="list-style-type: none"> - Describe how, conceptually and geometrically, iterative improvement algorithms solve nonlinear programming problems - Identify the optimality conditions for nonlinear programming problems - Solve nonlinear programming problems using the OPTMODEL procedure - Interpret information written to the SAS log during the solution of a nonlinear programming problem - Differentiate between the NLP algorithms and how solver options influence the NLP algorithms

Prepare with A00-226 Sample Questions:

Question: 1

What will most likely increase error variance when analyzing the results of an experiment?

- a) Failure to model nuisance variables
- b) Including interactions between factors
- c) Randomly assigning treatments to cases
- d) A large sample size

Answer: a

Question: 2

In order to correctly interpret the Cross Correlation Function (CCF) plot, which statement is true regarding the input variable in an ARMAX model?

- a) The input variable must be stochastic white noise.
- b) The input variable must be deterministic white noise.
- c) The input variable must contain a linear trend.
- d) The input variable must contain autocorrelation.

Answer: a

Question: 3

What is the main purpose of incremental response models?

- a) to predict who is going to buy the product
- b) to predict who is going to buy the product regardless of any promotion
- c) to predict who is going to buy the product only when a promotion is given
- d) to predict who is not going to buy the

Answer: c

Question: 4

Which two statements are true regarding the use of the IMPVAR statement to create implicit variables?

(Choose two.)

- a) The number of IMPVAR statements cannot exceed the number of declared variables.
- b) The IMPVAR statement is optional, but can reduce computational overhead.
- c) The implicit variable(s) created in the IMPVAR statement cannot be directly referenced in the objective function.
- d) The IMPVAR statement allows complex expressions to be built and referenced so they do not need to be repeated each time they are used.

Answer: b, d

Question: 5

Based upon your Time Series Exploration, you determine the series contains no trend component but it has a seasonal component that is consistent in its variance across time. Which two Exponential Smoothing models are appropriate?

(Choose Two.)

- a) Seasonal Additive Exponential Smoothing
- b) Winters Additive Exponential Smoothing
- c) Simple Exponential Smoothing
- d) Damped-Trend Exponential Smoothing
- e) Winters Multiplicative Exponential Smoothing

Answer: a, b

Question: 6

Covariate values are characteristics of experimental units that:

- a) restrict randomization
- b) are continuous
- c) are selected
- d) are measured

Answer: d

Question: 7

What is the best measure for variable selection for incremental response models?

- a) Weight of Evidence
- b) Information Value
- c) Net Information Value
- d) Net Weight of Evidence

Answer: c

Question: 8

As the exponential smoothing coefficient decreases towards 0, what happens to the emphasis on the most recent values?

- a) The emphasis increases.
- b) The emphasis decreases.
- c) The emphasis stays the same.
- d) The emphasis is not related to the exponential smoothing coefficient.

Answer: b

Question: 9

In mixing a compound, the amount of water that should be used in each lot depends on the temperature of the processing furnace. What concept does this example illustrate?

- a) Multicollinearity
- b) Interaction
- c) Variance
- d) Type-I error

Answer: b

Question: 10

Which statement is true about Net Information Value (NIV)?

- a) It requires training and validation data sets.
- b) It is used to rank the input variables.
- c) It has a heuristic cutoff of $NIV = 50$.
- d) It is preferred to the use of Net Weight of Evidence (NWOE).

Answer: b

Tips for Success in the SAS Text Analytics, Time Series, Experimentation and Optimization Exam:

Familiarize Yourself with the A00-226 Exam Format:

Before starting your study regimen, it's crucial to acquaint yourself with the structure of the A00-226 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 A00-226 Exam:

To prepare efficiently for the A00-226 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 A00-226 exam subjects thoroughly. Each resource provides distinct perspectives and explanations that can enrich your learning journey.

Regular Practice for the A00-226 Exam:

Consistent practice is essential for effective preparation for the A00-226 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 A00-226 Exam Preparation:

Keep yourself organized as you prepare for the A00-226 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 A00-226 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 A00-226 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 A00-226 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 A00-226 exam. Envision success, remain focused, and approach the exam calmly and objectively.

Benefits of Passing the A00-226 Exam:

- Completing the A00-226 exam unlocks pathways to fresh career prospects and progression within your industry.
- The extensive preparation needed for the A00-226 certification equips you with comprehensive knowledge and practical expertise applicable to your field.
- Possessing the A00-226 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 A00-226 certification validates your competence and trustworthiness, fostering confidence among clients, employers, and peers.

Explore the Trusted Practice Exam for the A00-226 Certification:

At AnalyticsExam.com, you'll find comprehensive resources for the A00-226 exam. Our platform offers authentic practice exams tailored specifically for the A00-226 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 [A00-226 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 Specialist - Text Analytics, Time Series, Experimentation and Optimization.

Final Remarks:

Preparing for the A00-226 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 A00-226 Certification

AnalyticsExam.Com is here with all the necessary details regarding the A00-226 exam. We provide authentic practice tests for the A00-226 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 [A00-226 practice tests](https://www.analyticsexam.com/sas-certification/a00-226-sas-text-analytics-time-series-experimentation-and-optimization), and gradually build your confidence. Rigorous practice made many aspirants successful and made their journey easy towards grabbing the SAS Specialist - Text Analytics, Time Series, Experimentation and Optimization.

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