SAS A00-440

SAS MODELOPS SPECIALIST CERTIFICATION QUESTIONS & ANSWERS

Get Instant Access to Vital Exam Acing Materials | Study Guide | Sample Questions | Practice Test

A00-440

SAS Certified ModelOps Specialist

65 Questions Exam – 65% Cut Score – Duration of 110 minutes

Table of Contents

Discover More about the A00-440 Certification

Are you interested in passing the SAS A00-440 exam? First discover, who benefits from the A00-440 certification. The A00-440 is suitable for a candidate if he wants to learn about Advanced Analytics. Passing the A00-440 exam earns you the SAS Certified ModelOps Specialist title.

While preparing for the A00-440 exam, many candidates struggle to get the necessary materials. But do not worry; your struggling days are over. The A00-440 PDF contains some of the most valuable preparation tips and the details and instant access to useful **A00-440 study materials just at one click**.

A00-440 SAS ModelOps Specialist Certification Details:

Exam Name	SAS Certified ModelOps Specialist
Exam Code	A00-440
Exam Duration	110 minutes
Exam Questions	65
Passing Score	65%
Exam Price	$180 (USD)
Training	**ModelOps: Governing AI and Machine Learning Models That Drive Your Business with SAS**
Books	**Managing Models in SAS Viya**
Exam Registration	**Pearson VUE**
Sample Questions	**SAS ModelOps Specialist Certification Sample Question**
Practice Exam	**SAS ModelOps Specialist Certification Practice Exam**

A00-440 Syllabus:

Objective	Details
Define the ModelOps Framework (18 - 22%)	
Emphasis on governance and stakeholders	- Determine relevant stakeholders based on desired business outcome

Objective	Details
	- How will collaboration be achieved - What are standard channels of communication

Determine the business process workflow	- Outline feedback loops and decision validation
	- Articulate handoffs and individual roles/responsibilities
	
	  • Establish an approval process
	  • Create a peer review process
	    - Validate assumptions
	    - Review for potential bias
	    - Test against hold out data
	    - Adherence to compliance and standards
	    - Confirm the process is documented
	  • Create a business review process
	    - Adherence to compliance and standards
	    - Verify consumption method
	    - Make a Go/No-Go decision
	
	- Define audit and tracking needs
	- Automated vs. Manual tasks
	- Batch vs. OnDemand vs. Streaming
	- Identify third party integration points
	
	  • CI/CD
	  • Model development tools
	  • Git
	  • Mobile Apps

Develop workflow template(s) to execute the process	- Model Type
	
	  • Supervised
	  • Unsupervised
	
	- Scoring Environments
	
	  • Cloud
	  • On-prem
	  • Containers
	  • In-database
	  • Edge

<td colspan="1" align="center">**Develop Model Proposal (23 - 28%)**</td>

Define the business objective	- Define the business objective
	
	  • Explicitly define the target variable
	  • Assess business impact
	  • Identify potential consumption methods
	  • Verify alignment with corporate strategy and policies

Objective	Details
Associated assets to include	- Cost/benefit analysis - Optimal business value - Time to return on investment - Level of risk - Caveats/Assumptions - Finalize consumption method
Evaluation against alternative resource allocation	
Establish preferred deployment method	
Establish monitoring assessment metrics	- Business outcome metrics - Optimal model accuracy fit statistics - Model monitoring frequency and evaluation criteria - Operational performance metrics

Model Development and Management (23 - 28%)

New or Re-build Model Development	- Pre-processing - data extracts and data preparation - Model training - Post-processing - Integration with third party software
Model tournament	- Evaluate and compare multiple candidate models • Utilize fit statistics presented in Business Proposal • Consider balance of fit vs. model interpretability • Alignment to corporate ethics and data privacy standards - Select a champion model
Execute peer review	
Execute business review	- Exporting score code - Registering a model - Publish a model
Model registration	- Metadata • Input/output variables • Properties - Artifacts

Objective	Details
	• Score code • Pre/post processing code • Associated external files and documentation
Establish the monitoring process	- Build data extracts for input data - Create metrics to monitor • Model metrics • Business metrics • System metrics - Setup thresholds and alerts - Develop monitoring reports - Document the process and parameters
Prepare a model for use in production	

Model Deployment (18 - 22%)	
Develop the data ingestion pipeline	- Confirm naming conventions/standards used - Review adherence to architecture standards - Process request for additional data source (if needed) - Build data extract for monitoring
Define production jobs	- Create consumption application(s) (on-demand/streaming) - Integrate with decisioning process - Setup scoring, includes pre-/post-processing - Setup performance data creation - Setup performance monitoring reports • Model accuracy • Business outcome • Embed alerts - Develop follow-up actions • Model updates based on performance monitoring • Business decisions
IT compliance check	- Validate regulatory compliance - Cross-check against standards/policy
Pre-production Testing	- Unit testing - Regression testing - Performance testing

Objective	Details
Production (9 - 12%)	
Execute preprocessing	
Execute scoring/decision	
Execute post-processing	
Execute business actions associated with score/decision	
Execute performance monitoring	- Evaluation • Diagnose data drift • Assess model accuracy • Business outcomes • Operational impact - Alerts based on thresholds - Model update (Recalibrate/Retrain/Rebuild/Retire)

Broaden Your Knowledge with SAS A00-440 Sample Questions:

Question: 1

A model KPI has degraded below the acceptable threshold over the last several periods while the input variable distribution has remained stable. What is the next step in the process?

    a) Reach out to the data engineer and ask for a correction in the data pipeline.
    b) Consider additional variables and alternate modeling algorithms.
    c) Continue tracking model performance and reassess during the next time period.
    d) Build and deploy a better neural network model instead of the current algorithm.

Answer: b

Question: 2

Outlining all feedback loops and decisioning validation metrics is crucial in determining which step?

- a) Business review process
- b) Analytics peer review process
- c) IT/operations review process
- d) Business process workflow

Answer: d

Question: 3

A model is created to predict loan delinquency at the bank. After model registration, the validator is asked to assess the model before it is put into production.

Which criteria should the validator use to make the go/no go decision?

(Choose 2.)

- a) Model qualitative characteristics assessed according to validator expertise.
- b) Model quantitative characteristics estimated using a validation dataset.
- c) Model performance measured in scoring latency.
- d) Model quantitative characteristics estimated using the training dataset.

Answer: a, b

Question: 4

What is the assumption that the variance of a dependent variable is not equal across all values of the independent variable referred to as?

- a) Residual Error
- b) Homoscedasticity
- c) Heteroscedasticity
- d) Collinearity

Answer: c

Question: 5

What is imperative to ensure the success of the ModelOps framework?

- a) Set up knowledge sharing sessions around technology and best practices.
- b) Confirm that everyone understands the ModelOps process and their role within.
- c) Establish collaboration between IT/Operations, modelers, and the business team.
- d) Provide job rotations to learn how other teams involved in the process work.

Answer: c

Question: 6

What is the first evaluation hurdle to overcome for a model to continue in the tournament?

   a) Simplicity of deployment
   b) Fit statistics and scoring overlay charts
   c) CPU time and elapsed run time
   d) Model input variables

Answer: b

Question: 7

What is a characteristic of an ensemble modeling technique?

   a) The posterior probabilities of the individual models are combined.
   b) Interpretability techniques are incompatible with ensemble models.
   c) Ensemble models consistently achieve better performance than individual models.
   d) The voting function is done using singular value decomposition.

Answer: a

Question: 8

Scoring is configured to run on-prem for the sake of _____.

   a) security
   b) efficiency
   c) scalability
   d) speed

Answer: a

Question: 9

What is the process to test and evaluate a model's accuracy on data from a subsequent time window called?

   a) Out-of-bag testing
   b) Out-of-time testing
   c) Out-of-sample testing
   d) Out-of-training testing

Answer: b

Question: 10

What is a cause of bias in a model that is identified during peer review?

   a) Collinearity
   b) Poor sampling method
   c) A low p-value
   d) High misclassification

Answer: b

Avail the Study Guide to Pass A00-440 SAS ModelOps Specialist Exam:

- Find out about the A00-440 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 **A00-440 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 A00-440 training. Joining the SAS provided training for A00-440 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 **A00-440 sample questions** and boost your knowledge
- Make yourself a pro through online practicing the syllabus topics. A00-440 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 A00-440 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 A00-440 Certification

VMExam.Com is here with all the necessary details regarding the A00-440 exam. We provide authentic practice tests for the A00-440 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 **A00-440 practice tests**, and gradually build your confidence. Rigorous practice made many aspirants successful and made their journey easy towards grabbing the SAS Certified ModelOps Specialist.

Start Online Practice of A00-440 Exam by Visiting URL

https://www.analyticsexam.com/sas-certification/a00-440-sas-certified-modelops-specialist