



# SAS A00-440

SAS MODELOPS SPECIALIST CERTIFICATION QUESTIONS & ANSWERS

Exam Summary – Syllabus – Questions

**A00-440**

**SAS Certified ModelOps Specialist**

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

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## Table of Contents

Know Your A00-440 Certification Well: .....	2
A00-440 SAS ModelOps Specialist Certification Details: .....	2
A00-440 Syllabus: .....	3
<b>Define the ModelOps Framework (18 - 22%)</b> .....	3
<b>Develop Model Proposal (23 - 28%)</b> .....	4
<b>Model Development and Management (23 - 28%)</b> .....	4
<b>Model Deployment (18 - 22%)</b> .....	5
<b>Production (9 - 12%)</b> .....	6
SAS A00-440 Sample Questions: .....	6
Study Guide to Crack SAS ModelOps Specialist A00-440 Exam: .....	9

## Know Your A00-440 Certification Well:

The A00-440 is best suitable for candidates who want to gain knowledge in the SAS Advanced Analytics. Before you start your A00-440 preparation you may struggle to get all the crucial SAS ModelOps Specialist materials like A00-440 syllabus, sample questions, study guide.

But don't worry the A00-440 PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the A00-440 syllabus?
- How many questions are there in the A00-440 exam?
- Which Practice test would help me to pass the A00-440 exam at the first attempt?

Passing the A00-440 exam makes you SAS Certified ModelOps Specialist. Having the SAS ModelOps Specialist certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

## A00-440 SAS ModelOps Specialist Certification Details:

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

## A00-440 Syllabus:

Objective	Details
<b>Define the ModelOps Framework (18 - 22%)</b>	
<b>Emphasis on governance and stakeholders</b>	<ul style="list-style-type: none"> <li>- Determine relevant stakeholders based on desired business outcome</li> <li>- How will collaboration be achieved</li> <li>- What are standard channels of communication</li> </ul>
<b>Determine the business process workflow</b>	<ul style="list-style-type: none"> <li>- Outline feedback loops and decision validation</li> <li>- Articulate handoffs and individual roles/responsibilities               <ul style="list-style-type: none"> <li>• Establish an approval process</li> <li>• Create a peer review process                   <ul style="list-style-type: none"> <li>- Validate assumptions</li> <li>- Review for potential bias</li> <li>- Test against hold out data</li> <li>- Adherence to compliance and standards</li> <li>- Confirm the process is documented</li> </ul> </li> <li>• Create a business review process                   <ul style="list-style-type: none"> <li>- Adherence to compliance and standards</li> <li>- Verify consumption method</li> <li>- Make a Go/No-Go decision</li> </ul> </li> </ul> </li> <li>- Define audit and tracking needs</li> <li>- Automated vs. Manual tasks</li> <li>- Batch vs. OnDemand vs. Streaming</li> <li>- Identify third party integration points               <ul style="list-style-type: none"> <li>• CI/CD</li> <li>• Model development tools</li> <li>• Git</li> <li>• Mobile Apps</li> </ul> </li> </ul>
<b>Develop workflow template(s) to execute the process</b>	<ul style="list-style-type: none"> <li>- Model Type               <ul style="list-style-type: none"> <li>• Supervised</li> <li>• Unsupervised</li> </ul> </li> <li>- Scoring Environments               <ul style="list-style-type: none"> <li>• Cloud</li> <li>• On-prem</li> <li>• Containers</li> <li>• In-database</li> <li>• Edge</li> </ul> </li> </ul>

Objective	Details
<b>Develop Model Proposal (23 - 28%)</b>	
<b>Define the business objective</b>	<ul style="list-style-type: none"> <li>- Define the business objective</li> <li>• Explicitly define the target variable</li> <li>• Assess business impact</li> <li>• Identify potential consumption methods</li> <li>• Verify alignment with corporate strategy and policies</li> </ul>
<b>Associated assets to include</b>	<ul style="list-style-type: none"> <li>- Cost/benefit analysis</li> <li>- Optimal business value</li> <li>- Time to return on investment</li> <li>- Level of risk</li> <li>- Caveats/Assumptions</li> <li>- Finalize consumption method</li> </ul>
<b>Evaluation against alternative resource allocation</b>	
<b>Establish preferred deployment method</b>	
<b>Establish monitoring assessment metrics</b>	<ul style="list-style-type: none"> <li>- Business outcome metrics</li> <li>- Optimal model accuracy fit statistics</li> <li>- Model monitoring frequency and evaluation criteria</li> <li>- Operational performance metrics</li> </ul>
<b>Model Development and Management (23 - 28%)</b>	
<b>New or Re-build Model Development</b>	<ul style="list-style-type: none"> <li>- Pre-processing - data extracts and data preparation</li> <li>- Model training</li> <li>- Post-processing</li> <li>- Integration with third party software</li> </ul>
<b>Model tournament</b>	<ul style="list-style-type: none"> <li>- Evaluate and compare multiple candidate models</li> <li>• Utilize fit statistics presented in Business Proposal</li> <li>• Consider balance of fit vs. model interpretability</li> <li>• Alignment to corporate ethics and data privacy standards</li> <li>- Select a champion model</li> </ul>
<b>Execute peer review</b>	
<b>Execute business review</b>	<ul style="list-style-type: none"> <li>- Exporting score code</li> <li>- Registering a model</li> <li>- Publish a model</li> </ul>
<b>Model registration</b>	<ul style="list-style-type: none"> <li>- Metadata</li> </ul>

Objective	Details
	<ul style="list-style-type: none"> <li>• Input/output variables</li> <li>• Properties</li> </ul> <p>- Artifacts</p> <ul style="list-style-type: none"> <li>• Score code</li> <li>• Pre/post processing code</li> <li>• Associated external files and documentation</li> </ul>
<b>Establish the monitoring process</b>	<p>- Build data extracts for input data</p> <p>- Create metrics to monitor</p> <ul style="list-style-type: none"> <li>• Model metrics</li> <li>• Business metrics</li> <li>• System metrics</li> </ul> <p>- Setup thresholds and alerts</p> <p>- Develop monitoring reports</p> <p>- Document the process and parameters</p>
<b>Prepare a model for use in production</b>	
<b>Model Deployment (18 - 22%)</b>	
<b>Develop the data ingestion pipeline</b>	<p>- Confirm naming conventions/standards used</p> <p>- Review adherence to architecture standards</p> <p>- Process request for additional data source (if needed)</p> <p>- Build data extract for monitoring</p>
<b>Define production jobs</b>	<p>- Create consumption application(s) (on-demand/streaming)</p> <p>- Integrate with decisioning process</p> <p>- Setup scoring, includes pre-/post-processing</p> <p>- Setup performance data creation</p> <p>- Setup performance monitoring reports</p> <ul style="list-style-type: none"> <li>• Model accuracy</li> <li>• Business outcome</li> <li>• Embed alerts</li> </ul> <p>- Develop follow-up actions</p> <ul style="list-style-type: none"> <li>• Model updates based on performance monitoring</li> <li>• Business decisions</li> </ul>
<b>IT compliance check</b>	<p>- Validate regulatory compliance</p> <p>- Cross-check against standards/policy</p>
<b>Pre-production Testing</b>	<p>- Unit testing</p> <p>- Regression testing</p> <p>- Performance testing</p>

Objective	Details
<b>Production (9 - 12%)</b>	
<b>Execute preprocessing</b>	
<b>Execute scoring/decision</b>	
<b>Execute post-processing</b>	
<b>Execute business actions associated with score/decision</b>	
<b>Execute performance monitoring</b>	<ul style="list-style-type: none"> <li>- Evaluation                             <ul style="list-style-type: none"> <li>• Diagnose data drift</li> <li>• Assess model accuracy</li> <li>• Business outcomes</li> <li>• Operational impact</li> </ul> </li> <li>- Alerts based on thresholds</li> <li>- Model update (Recalibrate/Retrain/Rebuild/Retire)</li> </ul>

## SAS A00-440 Sample Questions:

### Question: 1

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

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

**Answer: a**

### Question: 2

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: 3**

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: 4**

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: 5**

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: 6**

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**



**Question: 7**

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: 8**

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: 9**

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: 10**

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**

# Study Guide to Crack SAS ModelOps Specialist A00-440 Exam:

- Getting details of the A00-440 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the A00-440 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the SAS provided training for A00-440 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the A00-440 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on A00-440 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

## Reliable Online Practice Test for A00-440 Certification

Make AnalyticsExam.Com your best friend during your SAS Managing the Model Life Cycle using ModelOps exam preparation. We provide authentic practice tests for the A00-440 exam. Experts design these online practice tests, so we can offer you an exclusive experience of taking the actual A00-440 exam. We guarantee you 100% success in your first exam attempt if you continue practicing regularly. Don't bother if you don't get 100% marks in initial practice exam attempts. Just utilize the result section to know your strengths and weaknesses and prepare according to that until you get 100% with our practice tests. Our evaluation makes you confident, and you can score high in the A00-440 exam.

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