



A00-225

SAS ADVANCED PREDICTIVE MODELING

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Exam Summary – Syllabus – Questions

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Introduction to A00-225 Exam on SAS

Advanced Predictive Modeling

This page is a one-stop solution for any information you may require for SAS Advanced Predictive Modeling (A00-225) Certification exam. The SAS A00-225 Exam Summary, Syllabus Topics and Sample Questions provide the base for the actual SAS Certified Advanced Analytics Professional Using SAS 9 exam preparation, we have designed these resources to help you get ready to take your dream exam.

The SAS Advanced Predictive Modeling credential is globally recognized for validating SAS Advanced Analytics Professional knowledge. With the SAS Certified Advanced Analytics Professional Using SAS 9 Certification credential, you stand out in a crowd and prove that you have the SAS Advanced Analytics Professional knowledge to make a difference within your organization. The SAS Advanced Predictive Modeling Certification (A00-225) exam will test the candidate's knowledge on following areas.

SAS A00-225 Certification Details:

Exam Name	SAS Advanced Predictive Modeling
Exam Code	A00-225
Exam Duration	110 minutes
Exam Questions	50 to 55 Multiple choices or short answer questions
Passing Score	67%
Exam Price	\$180 (USD)
Training	<ol style="list-style-type: none"> 1. Using SAS to Put Open Source Models into Production 2. SAS Enterprise Miner High-Performance Data Mining Nodes 3. Predictive Modeling Using SAS In-Memory Statistics 4. SAS Visual Statistics: Interactive Model Building 5. Predictive Modeling Using Logistic Regression 6. Neural Network Modeling
Exam Registration	Pearson VUE
Sample Questions	SAS Advanced Analytics Professional Certification Sample Question
Practice Exam	SAS Advanced Analytics Professional Certification Practice Exam

SAS A00-225 Exam Syllabus:

Objective	Details
<p>Neural Networks (20%)</p>	<ul style="list-style-type: none"> - Describe key concepts underlying neural networks - Use two architectures offered by the Neural Network node to model either linear or non-linear input-output relationships - Use optimization methods offered by the SAS Enterprise Miner Neural Network node to efficiently search the parameter space in a neural network - Construct custom network architectures by using the NEURAL procedure (PROC Neural) - Based upon statistical considerations, use either time delayed neural networks, surrogate models to augment neural networks - Use the HP Neural Node to perform high-speed training of a neural network
<p>Logistic Regression (30%)</p>	<ul style="list-style-type: none"> - Score new data sets using the LOGISTIC and PLM procedures - Identify the potential challenges when preparing input data for a model - Use the DATA step to manipulate data with loops, arrays, conditional statements and functions - Improve the predictive power of categorical inputs - Screen variables for irrelevance and non-linear association using the CORR procedure - Screen variables for non-linearity using empirical logit plots - Apply the principles of honest assessment to model performance measurement - Assess classifier performance using the confusion matrix - Model selection and validation using training and validation data - Create and interpret graphs (ROC, lift, and gains charts) for model comparison and selection

Objective	Details
	<ul style="list-style-type: none"> - Establish effective decision cut-off values for scoring
<p>Predictive Analytics on Big Data (40%)</p>	<ul style="list-style-type: none"> - Build and interpret a cluster analysis in SAS Visual Statistics - Explain SAS high-performance computing - Perform principal component analysis - Analyze categorical targets using logistic regression in SAS Visual Statistics - Analyze categorical targets using decision trees in SAS Visual Statistics - Analyze categorical targets using decision trees in PROC IMSTAT - Analyze categorical targets using logistic regression in PROC IMSTAT - Build random forest models with PROC IMSTAT - Analyze interval targets with SAS Visual Statistics - Analyze interval targets with PROC IMSTAT - Analyze zero inflated models with HPGLM in Enterprise Miner
<p>Open Source Models in SAS (10%)</p>	<ul style="list-style-type: none"> - Incorporate an existing R program into SAS Enterprise Miner - Incorporate an existing Python program into SAS Enterprise Miner

A00-225 Sample Questions:

Q 1: What is the maximum number of response variables that SAS Visual Statistics allows for a decision tree?

Options:

- A: 2
- B: 4
- C: 1
- D: 3

Q 2: When mean imputation is performed on data after the data is partitioned for honest assessment, what is the most appropriate method for handling the mean imputation?

Options:

- A: The sample means from the training data set are applied to the validation and test data sets.
- B: The sample means from the validation data set are applied to the training and test data sets.
- C: The sample means from each partition of the data are applied to their own partition.
- D: The sample means from the test data set are applied to the training and validation data sets.

Q 3: What is a linear Perceptron?**Options:**

- A: A linear Perceptron is a non-parametric model.
- B: A linear Perceptron is a nonlinear model.
- C: A linear Perceptron is a general linear model.
- D: A linear Perceptron is a generalized linear model.

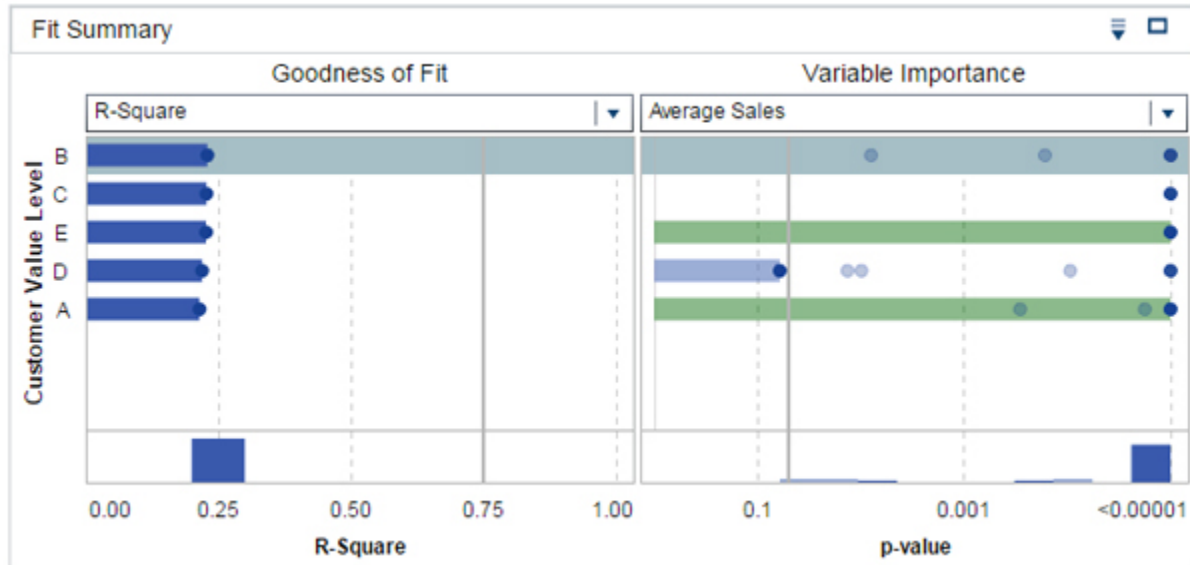
Q 4: A predictive model uses a data set that has several variables with missing values. What two problems can arise with this model? (Choose two.)**Options:**

- A: The model will likely be overfit.
- B: There will be a high rate of collinearity among input variables.
- C: New cases with missing values on input variables cannot be scored without extra data processing.
- D: Fewer observations will be used in the model building process.

Q 5: Consider a Generalized Additive Neural Network (GANN) with 3 continuous inputs and 2 hidden nodes for each input. How many parameters do you need to estimate when training the neural network?**Options:**

- A: 19
- B: 21
- C: 25
- D: 22

Q 6: Refer to the fit summary from SAS Visual Statistics in the exhibit below.



What can be concluded from the fit summary?

Options:

- A: Average Sales is a significant predictor when Customer Value Level = E.
- B: Customer Value Level C has no important variables associated with it.
- C: Average Sales is an important predictor when Customer Value Level = C.
- D: Customer Value Level is not a significant predictor in this model.

Answers to A00-225 Exam Questions:

Question: 1	Answer: C	Question: 2	Answer: A
Question: 3	Answer: D	Question: 4	Answer: C, D
Question: 5	Answer: D	Question: 6	Answer: A

Note: If you find any typo or data entry error in these sample questions, we request you to update us by commenting on this page or write an email on feedback@analyticsexam.com