



1. Introduction There are **5 major areas** of SAS Certification with eight specific certification exams. **SAS Foundation:** 1. SAS Certified Base Programmer for SAS9 2. SAS Certified Advanced Programmer for SAS9. 3. SAS Certified Clinical Trials Programmer Using SAS9 **SAS Advanced Analytics:** 4. SAS Certified Predictive Modeler Using SAS Enterprise Miner 7. 5. SAS Certified Statistical Business Analyst Using SAS9 Regression & Modeling SAS Business Intelligence: 6. SAS Certified BI Content Developer for SAS9. **SAS Data Management (Information Management):** 7. SAS Certified Data Integration Developer for SAS9. SAS Administration: 8. SAS Certified Platform Administrator for SAS9. 3

SAS Foundation

There are 3 specific FOUNDATION certification exams:

SAS Certified Base Programmer for SAS9:

Successful candidates for this exam should have the following programming and data management experience:

- Import and export raw data files.
- Manipulate and transform data.
- Combine SAS data sets.
- Create basic detail and summary reports using Base SAS procedures.
- Identify and correct data syntax and programming logic errors.

SAS Certified Advanced Programmer for SAS9:

Successful candidates for this exam should hold a SAS Certified Base Programmer for SAS9 credential and have current programming and data management experience using SAS9 to:

- Write efficient SAS code to solve complex problems, while minimizing the use of computer resources.
- Use advanced DATA step programming and efficiency techniques.
- Write and interpret SAS SQL code.
- Use the SAS Macro facility.





SAS Business Intelligence

There is one exam in this area.

SAS Certified BI Content Developer for SAS9.

Successful candidates for this exam should have experience with the SAS platform and the ability to demonstrate the skills and knowledge necessary to develop or implement the following:

- Business user reporting applications.
- Advanced reporting techniques and roles.
- Information Maps.
- SAS BI Dashboard applications.
- Stored Processes.
- Advanced techniques with SAS Reports.
- Multidimensional (OLAP) data sources.
- Environment metadata.



SAS Administration

There is one exam in this area.

SAS Certified Platform Administrator for SAS9.

Successful candidates for this exam should have experience administering the SAS platform and the ability to demonstrate the skills and knowledge necessary to:

- Secure the SAS configuration on each server machine.
- Check status and operate servers.
- Monitor server activity and administer logging.
- Establish formal, regularly scheduled backup processes.
- Add users and manage their access.
- Establish connectivity to data sources.
- Set up and secure metadata folder structures.
- Administer repositories and move metadata.























Exam Preparation – Base Sample Questions					
Question B3: What will the dataset	A. Var1	Var2	Var3	Var4	
WORK.COLORS look like ?	RED BLUE CVAN	ORANGE INDIGO	RED BLUE	ORANGE INDIGO	
CRAYONS.TXT	GRAY	BROWN	GRAY	BROWN	
RED ORANGE YELLOW GREEN BLUE INDIGO PUBPLE VIOLET	B. Var1	Var2	Var3	Var4	
CYAN WHITE FUCSIA BLACK GRAY BROWN PINK MAGENTA	RED CYAN	ORANGE WHITE	BLUE GRAY	INDIGO BROWN	
data work.colors; infile 'CRAYONS.TXT';	C. Var1	Var2	Var3	Var4	
input @1 Var1 \$ @8 Var2 \$ @; input @1 Var3 \$ @8 Var4 \$ @; run:	RED BLUE	ORANGE INDIGO	YELLOW PURPLE	GREEN VIOLET	
(D. Var1	Var2	Var3	Var4	
	RED BLUE CYAN GRAY	ORANGE INDIGO WHITE BROWN	YELLOW PURPLE FUCSIA PINK	GREEN VIOLET BLACK MAGENTA	
				ا ک	





Exam Preparation -	- <u>Adv</u>	/and	ced S	Sam	nple (Que	stions	5
Question A1:	Work.ONE				Work.TWO			
<pre>proc sql; select one.*, sales from one right join two on one.year = two.year ;</pre>	<u>Year</u> 2001 2001 2002	Qtr 3 4 1	Budge 500 400 700	<u>et</u>	<u>Year</u> 2001 2002	Qtr 4 1	<u>Sales</u> 300 600	
Which one of the following reports is generated?	Æ	\mathbf{O}	<u>Year</u> 2001	Qtr 3	Bud 5	get 00	Sales	
		3)	2001 2002	4 1	4 7	00 00	300 600	
			2001 2001 2002	3 4 1	5 4 7	00 00 00	300 600	
			2001 2001 2002	3 4 1	5) 4) 7)	00 00 00	300 300 600	24

Exam Preparation – <u>Advanced</u> Sample Questions					
Question A2:	Mor		MorteT		
The following DATA step was submitted to create WORK.THREE.	Num	Char_1	Num Ch	har_2	
data work.three; merge work.one (in = a) work.two (in = b);	1 2 4	A B C	2 3 5	X Y Z	
by num ; run ;	<u>v</u>	Work.THREE			
	Num	Char_1	Char_2		
Which one of the SQL programs on	1 2 3	A B	X Y		
the next page creates an equivalent SAS data set THREE?	4 5	D	Z		
				21	
				2:	







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