

# What is SAS Base Certification?

[SAS Base certification questions](#) and exam summary helps you to get focused on exam. This guide also helps you to be on [A00-211 exam](#) track to get certified with good score in final exam.

## A00-211 - SAS Base Certification Summary

<b>Exam Name</b>	Certified Base Programmer
<b>Exam Code</b>	A00-211
<b>Exam Duration</b>	110 minutes
<b>Exam Questions</b>	60 to 65 multiple-choice and short-answer questions
<b>Passing Score</b>	70%
<b>Exam Price</b>	\$180 (USD)
<b>Training</b>	Not mandatory
<b>Books</b>	SAS Certification Prep Guide: Base Programming for SAS 9, Third Edition
<b>Exam Registration</b>	Pearson VUE
<b>Sample Questions</b>	<a href="#">SAS Base Programmer Certification Sample Question</a>
<b>Practice Exam</b>	<a href="#">SAS Base Programmer Certification Practice Exam</a>

The ideal certification for those relatively new to SAS programming or new to SAS certification.

Successful candidates should have experience in programming and data management using SAS 9 and should be able to

- import and export raw data files
- manipulate and transform data
- combine SAS data sets
- create basic detail and summary reports using SAS procedures
- identify and correct data, syntax and programming logic errors.

---

## A00-211 SAS Base Certification Questions:

A00-211 Base SAS Sample questions are provided for each exam to illustrate the various question types that may appear. For some credentials, a practice exam is also available.

### Question 1

The following program is submitted.

```
data WORK.TEST;
  input Name $ Age;
datalines;
John +35
;
run;
```

Which values are stored in the output data set?

1. Name            Age  
-----  
John            35
2. Name            Age  
-----  
John            (missing value)
3. Name            Age  
-----  
(missing value) (missing value)
4. The DATA step fails execution due to data errors.

**correct\_answer = "A"**

### Question 2

Given the SAS data set WORK.ONE:

```
Id Char1
--- -----
182 M
190 N
250 O
720 P
```

and the SAS data set WORK.TWO:

```
Id Char2
```

```
--- -----
```

```
182 Q
```

```
623 R
```

```
720 S
```

The following program is submitted:

```
data WORK.BOTH;
  merge WORK.ONE WORK.TWO;
  by Id;
run;
```

What is the first observation in the SAS data set WORK.BOTH?

1. Id Char1 Char2

```
--- ----- -----
```

```
182 M
```

2. Id Char1 Char2

```
--- ----- -----
```

```
182      Q
```

3. Id Char1 Char2

```
--- ----- -----
```

```
182 M    Q
```

4. Id Char1 Char2

```
--- ----- -----
```

```
720 P    S
```

**correct\_answer = "C"**

### Question 3

Given the text file COLORS.TXT:

```
-----+-----1-----+-----2-----+-----
```

```
RED   ORANGE YELLOW GREEN
```

```
BLUE  INDIGO  PURPLE VIOLET
```

```
CYAN  WHITE  FUCSIA BLACK
```

---

GRAY BROWN PINK MAGENTA

The following SAS program is submitted:

```
data WORK.COLORS;
  infile 'COLORS.TXT';
  input @1 Var1 $ @8 Var2 $ @;
  input @1 Var3 $ @8 Var4 $ @;
run;
```

What will the data set WORK.COLORS contain?

1.
 

Var1	Var2	Var3	Var4
-----	-----	-----	-----
RED	ORANGE	RED	ORANGE
BLUE	INDIGO	BLUE	INDIGO
CYAN	WHITE	CYAN	WHITE
GRAY	BROWN	GRAY	BROWN
  
2.
 

Var1	Var2	Var3	Var4
-----	-----	-----	-----
RED	ORANGE	BLUE	INDIGO
CYAN	WHITE	GRAY	BROWN
  
3.
 

Var1	Var2	Var3	Var4
-----	-----	-----	-----
RED	ORANGE	YELLOW	GREEN
BLUE	INDIGO	PURPLE	VIOLET
  
4.
 

Var1	Var2	Var3	Var4
-----	-----	-----	-----
RED	ORANGE	YELLOW	GREEN
BLUE	INDIGO	PURPLE	VIOLET
CYAN	WHITE	FUCSIA	BLACK
GRAY	BROWN	PINK	MAGENTA

**correct\_answer = "A"**

#### Question 4

Given the SAS data set WORK.INPUT:

Var1	Var2
-----	-----
A	one
A	two
B	three
C	four
A	five

The following SAS program is submitted:

```
data WORK.ONE WORK.TWO;  
  set WORK.INPUT;  
  if Var1='A' then output WORK.ONE;  
  output;  
run;
```

How many observations will be in data set WORK.ONE?

Enter your numeric answer in the space below.

**correct\_answer = "8"**

### Question 5

The following SAS program is submitted:

```
data WORK.LOOP;  
  X = 0;  
  do Index = 1 to 5 by 2;  
    X = Index;  
  end;  
run;
```

Upon completion of execution, what are the values of the variables X and Index in the SAS data set named WORK.LOOP?

1. X = 3, Index = 5
2. X = 5, Index = 5
3. X = 5, Index = 6
4. X = 5, Index = 7

**correct\_answer = "D"**

**Question 6**

The following SAS program is submitted:

```
proc format;
  value score 1 - 50 = 'Fail'
           51 - 100 = 'Pass';
run;
```

Which one of the following PRINT procedure steps correctly applies the format?

1. 

```
proc print data = SASUSER.CLASS;
  var test;
  format test score;
run;
```
2. 

```
proc print data = SASUSER.CLASS;
  var test;
  format test score.;
run;
```
3. 

```
proc print data = SASUSER.CLASS format = score;
  var test;
run;
```
4. 

```
proc print data = SASUSER.CLASS format = score.;
  var test;
run;
```

**correct\_answer = "B"**

**Question 7**

This item will ask you to provide a line of missing code;

The SAS data set WORK.INPUT contains 10 observations, and includes the numeric variable Cost.

The following SAS program is submitted to accumulate the total value of Cost for the 10 observations:

```

data WORK.TOTAL;
  set WORK.INPUT;
  <insert code here>
  Total=Total+Cost;
run;

```

Which statement correctly completes the program?

1. keep Total;
2. retain Total 0;
3. Total = 0;
4. If \_N\_ = 1 then Total = 0;

**correct\_answer = "B"**

### Question 8

This question will ask you to provide a line of missing code.

Given the following data set WORK.SALES:

SalesID	SalesJan	FebSales	MarchAmt
W6790	50	400	350
W7693	25	100	125
W1387	.	300	250

The following SAS program is submitted:

```

data WORK.QTR1;
  set WORK.SALES;
  array month{3} SalesJan FebSales MarchAmt;
  <insert code here>
run;

```

Which statement should be inserted to produce the following output?

SalesID	SalesJan	FebSales	MarchAmt	Qtr1
W6790	50	400	350	800
W7693	25	100	125	250
W1387	.	300	250	550

1. Qtr1 = sum(of month{ \_ALL\_ });

2. Qtr1 = month{1} + month{2} + month{3};
3. Qtr1 = sum(of month{\*});
4. Qtr1 = sum(of month{3});

**correct\_answer = "C"**

### Question 9

Given the following SAS error log

```
44 data WORK.OUTPUT;
45 set SASHELP.CLASS;
46 BMI=(Weight*703)/Height**2;
47 where bmi ge 20;
ERROR: Variable bmi is not on file SASHELP.CLASS.
48 run;
```

What change to the program will correct the error?

1. Replace the WHERE statement with an IF statement
2. Change the \*\* in the BMI formula to a single \*
3. Change bmi to BMI in the WHERE statement
4. Add a (Keep=BMI) option to the SET statement

**correct\_answer = "A"**

### Question 10

The following SAS program is submitted:

```
data WORK.TEMP;
Char1='0123456789';
Char2=substr(Char1,3,4);
run;
```

What is the value of Char2?

1. 23
2. 34
3. 345
4. 2345

**correct\_answer = "D"**

## How to Register for SAS Base Certification Exam?



## SAS Base Certification A00-211 Exam Syllabus:

Objective	Details (get more detail on <a href="#">SAS Base Certification Questions</a> )
<b>Accessing Data</b>	<ul style="list-style-type: none"> <li>- Use FORMATTED and LIST input to read raw data files.</li> <li>- Use INFILE statement options to control processing when reading raw data files.</li> <li>- Use various components of an INPUT statement to process raw data files including column and line pointer controls, and trailing @ controls.</li> <li>- Combine SAS data sets.</li> <li>- Access an Excel workbook.</li> </ul>
<b>Creating Data Structures</b>	<ul style="list-style-type: none"> <li>- Create temporary and permanent SAS data sets.</li> <li>- Create and manipulate SAS date values.</li> <li>- Export data to create standard and comma-delimited raw data files.</li> <li>- Control which observations and variables in a SAS data set are processed and output.</li> </ul>
<b>Managing Data</b>	<ul style="list-style-type: none"> <li>- Investigate SAS data libraries using base SAS utility procedures.</li> <li>- Sort observations in a SAS data set.</li> <li>- Conditionally execute SAS statements.</li> <li>- Use assignment statements in the DATA step.</li> <li>- Modify variable attributes using options and statements in the DATA step.</li> <li>- Accumulate sub-totals and totals using DATA step statements.</li> <li>- Use SAS functions to manipulate character data, numeric data, and SAS date values.</li> <li>- Use SAS functions to convert character data to numeric and vice versa.</li> </ul>

	<ul style="list-style-type: none"><li>- Process data using DO LOOPS.</li><li>- Process data using SAS arrays.</li><li>- Validate and clean data.</li></ul>
<b>Generating Reports</b>	<ul style="list-style-type: none"><li>- Generate list reports using the PRINT procedure.</li><li>- Generate summary reports and frequency tables using base SAS procedures.</li><li>- Enhance reports through the use of user-defined formats, titles, footnotes and SAS System reporting.</li><li>- Generate reports using ODS statements.</li></ul>
<b>Handling Errors</b>	<ul style="list-style-type: none"><li>- Identify and resolve programming logic errors.</li><li>- Recognize and correct syntax errors.</li><li>- Examine and resolve data errors.</li></ul>

The official guide from the [SAS Certification Program](#) that covers all of the objectives tested in the exam. Topics include importing and exporting raw data files, creating and modifying SAS data sets, and identifying and correcting data syntax and programming logic errors.