

### Quality Standards Calculator User Manual



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### System Requirements:





### Before you begin:

Before you begin, you should close all open programs on your computer.



### To install;

You are now only eight short steps from being able to use QSC 2.2.

You can install QSC 2.2 from a CD (recommended) or a file downloaded directly from the SMB website.

Insert the CD into the CD-ROM, or DVD-ROM drive.

The installation process should start immediately and automatically.

However, if it does not, or if you have the AUTORUN feature disabled, access the START MENU, go to your RUN command and type:

### X: |setup.exe

(Replace the letter X with the letter of your CD-ROM drive)

The setup Wizard will begin. Follow the prompts and QSC 2.2 will be installed in your system.

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### Step 1

Read the End User License agreement.

Press the **CONTINUE** button to begin the Set Up. Press the **EXIT SETUP** button to cancel the installation.

AnStat 2.2 ©2003-2005\06 Duffy P. Weber Setup
Welcome to the AnStat 2.2 ©2003-2005\06 Duffy P. Weber installation program.
Setup cannot install system files or update shared files if the files are in use. Before continuing, close any open applications.
WARNING: This program is protected by copyright law and international treaties.
You may install AnStat 2.2 ©2003-2005\06 Duffy P. Weber on a single computer. Some Microsoft products are provided with additional rights, which are stated in the End User License Agreement included with your software.
Please take a moment to read the End User License Agreement now. It contains all of the terms and conditions that pertain to this software product. By choosing to continue, you indicate acceptance of these terms.
Continue E <u>x</u> it Setup

# Quality Standards Calculator SSOB Sobo Sobo

### Step 2

Enter your name and Organization.

Press the **OK** button to continue. Press the **EXIT SETUP** button to cancel the installation.

Name and Organization Information 🛛 🔹 🔀			
Ð	Enter your full name in the box below. You may also enter the name of your organization. Setup will use this information for subsequent installations of the product.		
	Name:       Organization:	-	
	OK E <u>x</u> it Setup		

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### Step 3

Choose the destination folder in which you want QSC 2.2 will be installed.

Press the OK button to install to C:/

Press the CHANGE FOLDER button to select an alternate folder destination. Press the EXIT SETUP button to cancel the installation.

AnStat 2.2 ©2003-2005\06 Duffy P. Weber Se	etup ? 🔀		
Setup will install AnStat 2.2 ©2003-2005\06 Duffy P. Wel folder.	ber in the following destination		
To install to this folder, click OK.			
To install to a different folder, click the Change Folder button.			
You can choose not to install AnStat 2.2 ©2003-2005\06 Duffy P. Weber, or change its destination folder later during Setup.			
Folder:			
C:VANSTAT2	Change <u>F</u> older		
OK E <u>x</u> i	it Setup		

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### Step 4

Press the large (computer icon) button to install QSC 2.2 files to destination folder.

Press the **CHANGE FOLDER** button to select an alternate folder destination. Press the **EXIT SETUP** button to cancel the installation.

AnStat 2.2 ©2003-2005\06 Duffy P. Weber Setup 🛛 🔗 🔀				
To start install	lation, click the large button.			
	Install all files for AnStat 2.2 ©2003-2005\06 Duffy P. Weber			
Folder:				
C:\ANSTAT2	Change <u>F</u> older			
	E <u>s</u> it Setup			

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### Step 5

Select an existing program group or create a new group.

Press the **CONTINUE** button to add to the selected group. Press the **CANCEL** button to cancel the installation.

AnStat 2.2 ©2003-2005\06 Duffy P. Weber - Choos.	. 🗙		
Setup will add items to the group shown in the Program Group box. You can enter a new group name or select one from the Existing Groups list.			
<u>P</u> rogram Group:			
AnStat			
E <u>x</u> isting Groups:			
Administrative Tools			
ADSTech DVD Xpress			
AnStat ATI Multimodia Conter			
ATI Multimedia Center			
Dell Accessories Games			
GroupMail 5			
<u>C</u> ontinue Cancel			

## Quality Standards Calculator User Manual Image: Complexity of the second at log of the se

### Step 6

The program files will now be transferred to the selected destination folder and group. Transfer status will be indicated as shown in the example below.

Press the **CANCEL** button to cancel the installation.

Disk 1		×
Destination File: C:\ANSTAT2\CHA	NSI.ZIP	
	33%	_
	Cancel	

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### Step 7

When the program files have been transferred to the selected destination folder and group. Transfer status will be indicated as shown in the example below.

Press the  $\mathbf{OK}$  button to complete the installation.

AnStat 2.	2 ©2003-2005\06 Duffy P. Web 🔀
Þ	AnStat 2.2 ©2003-2005\06 Duffy P. Weber Setup was completed successfully.
	<u></u> K

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### Step 8

Enter the User Name and CD-Key (as printed on the front of the CD).

Press the **AUTHORIZE** button to complete the installation.

Rease Enter Product Key:
Please enter company name and registration code:
Authorize!

To run QSC 2.2, simply go to your Windows "Start" menu, select "Programs", then go to the "QSC 2.2" section, and choose "QSC 2.2".

### NOTES:

An instruction manual, should you need one, is located in the root directory of the CD in PDF format or from the SMB website at <a href="http://smbvalidation/eliterature.html">http://smbvalidation/eliterature.html</a>

If you have any questions or comments, please feel free to contact us any time at <u>QSCComments@smbvalidation.com</u>

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To run QSC 2.2, simply go to your Windows "Start" menu, select "Programs", then go to the "QSC 2.2" section, and choose "QSC 2.2. Alternately, double click on the QSC 2.2 Icon.



Qsc.ico

QCS will open to display the "SELECT A LOT SIZE SCREEN"

2 to 8	tion	
9 to 15 Levels Levels	,uon	
16 to 25		
26 to 50 • S-1 • OT (One)		
51 to 90 C S-2 C II (Two)		
91 to 150 CS-3 C III (Three)		
151 to 280 C S-4		
281 to 500		
501 to 1200		
1201 to 3200 Code Letter: A		
3201 to 10000		
10001 to 35000		
Reduced Single Inspection		
Normal Double Inspection		
Tightened Double Inspection		
Reduced Double Inspection		
Normal Multiple Insp	ection	
Tightened Multiple Ins	pection	
About Exit Reduced Multiple Ins	pection	
Create Item Profile Use Item Profile		
Make Log Entry		



Press the **ABOUT** button.

The **ABOUT** screen displays the software version number of the Quality Standards Calculator.



Press EXIT to return to the "SELECT A LOT SIZE SCREEN".

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From the **SELECT A LOT SIZE** screen a lot size range menu is displayed.

S	Select a Lot Size		
	2 to 8	-	Special Inspection General Inspection
	9 to 15		Levels Levels
	16 to 25		
	26 to 50		
	51 to 90		0 S-2 0 II (IWO)
	91 to 150		CS-3 CIII (Three)
	151 to 280		C S-4
	281 to 500		
	501 to 1200		
	1201 to 3200		Code Letter: A
	3201 to 10000		Normal Single Inspection
	10001 to 35000		Tightened Ringle Increation
	35001 10 150000		Deduced Single Inspection
	500001 to 500000		Reduced Single Inspection
	100001 +		Normal Double Inspection
			Tightened Double Inspection
			Reduced Double Inspection
			blauma al bladhin la la anna d'ann
		-	inormal multiple inspection
	Tightened Multiple Inspection		
	About Exit		Reduced Multiple Inspection
	Create Ite	m F	Profile Use Item Profile
	Make Log Entry		

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The LOT SIZE is the number of production units from which sample is to drawn and inspected. Select the range that is appropriate for the LOT or BATCH of product units.

For example: if you have a LOT or BATCH size of 2800 units. Select 1201-3200.

2	to	8
9	to	15
16	to	25
26	to	50
51	to	90
91	to	150
151	to	280
281	to	500
501	to	1200
1201	to	3200
3201	to	10000
10001	to	35000
35001	to	150000
150001	to	500000
500001	+	

The Quality Standards Calculator provides for three general inspection levels and four special inspection levels. These seven levels permit the user to balance the cost of inspection against the amount of protection required.

From the **GENERAL INSPECTION LEVELS** menu select the required general inspection level.

General Inspection Level

•	I (One)
---	---------

- O II (Two)
- O III (Three)

Or, from the **SPECIAL INSPECTION LEVELS** menu select the required inspection level.

Special Inspection Level

Ο	S-1	
0	S-2	
0	S-3	
0	S-4	



Once an inspection level is selected the **CODE LETTER** field located immediately below the **INSPECTION LEVEL** Menu will automatically be populated.

Example: for a LOT or BATCH size of 2800 and a GENERAL INSPECTION LEVEL of 1 (One) the CODE LETTER H will be automatically populated.



Select the required Inspection scheme.



**Normal inspection** is that which is used where there is no evidence that the quality of product being submitted is better or poorer than the specified quality level.

**Tightened inspection** under a sampling procedure plan uses the quality level as for normal inspection, but requires more stringent acceptance criteria.

**Reduced inspection** under a sampling plan uses the same quality level as for normal inspection, but requires a smaller sample for inspection.

A **single sampling plan** is a type of sampling plan by which the results of a single sample from an inspection lot are conclusive in determining acceptability. The number of sample units inspected shall be equal to the sample size given by the plan.

A **double sampling plan** involves sampling inspection in which the inspection of the first sample to a decision to accept, to reject or to take a second sample. The inspection of a second sample, when required, leads to a decision to accept or reject.

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The INSPECTION LEVEL: screen.

The **CODE LETTER** and **SAMPLE SIZE** will be displayed in the top Left Hand Upper quadrant of the **INSPECTION LEVEL SCREEN**.

The **SAMPLE SIZE** is the number of units of product that will be drawn from the **LOT** or **BATCH**. Samples should be drawn at random throughout the **LOT** or **BATCH** without regard to their quality.

Mi Inspection Level: Normal													
Code Letter: A Sample size: 1250													
Select an Acceptable Quality Level (AQL)													
0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.5	
4.0	6.5	10	15	25	40	65	100	150	250	400	650	1000	
ACCEPTABLE: REJECT BATCH IF OR MORE ARE UNSATISFACTORY Make Log Entry Exit													

Select an **ACCEPTABLE QUALITY LIMIT** (AQL) to calculate the **ACCEPT/REJECT RATE**. The AQL is the quality limit that is the worst tolerable process average when a continuing series of lots is submitted for acceptance sampling.

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The AQL is the quality limit that is the worst tolerable process average when a continuing series of lots is submitted for acceptance sampling.

M Double Inspection Level: Normal/Regular											×				
Code Letter: A Sample size: 0															
Select an Acceptable Quality Level (AQL)												_			
Sam	nle:	0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.5	
Sam	pie.														
● First ○ Set	st cond	4.0	6.5	10	15	25	40	65	100	150	250	400	650	1000	
ACCEPTABLE: REJECT BATCH IF OR MORE ARE UNSATISFACTORY															
77777 = Acceptance not permitted on this sample size 99999 = Use corresponding single sampling plan 88888 = Use corresponding double sampling planMake Log EntryExit															

The concept of AQL only applies when an acceptance sampling scheme with rules for switching between normal, tightened and reduced inspection and discontinuance of sampling inspection is used. These rules are designed to encourage suppliers to have process averages consistently better than the AQL. If suppliers fail to do so, there is a high probability of being switched from normal inspection to tightened inspection where lot acceptance becomes more difficult. Once on tightened inspection, unless corrective action is taken to improve product quality, it is very likely that the rule requiring discontinuance of sampling inspection will be invoked.

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Multiple Inspection Level: Normal/Regular															
Code Lette	er: 🖡		Sa	mple siz	e:	0									
Select an Ad	cepta	ble G	∂uality	/ Leve	əl (AG	QL)	·····								
Sample: • First (1st)	0.010	0.015	0.025	0.040	0.065	0.10	0.15	0.25	0.40	0.65	1.0	1.5	2.5		
C Second (2nd) C Third (3rd) C Fourth (4th)	4.0	6.5	10	15	25	40	65	100	150	250	400	650	1000		
C Fifth (5th) C Sixth (6th) C Seventh (7th)														]	
ACCEPTABLE: REJECT BATCH IF OR MORE ARE UNSATISFACTORY															
	77777 = Acceptance not permitted on this sample size 99999 = Use corresponding single sampling plan Make Log Entry Exit 88888 = Use corresponding double sampling plan														

Although individual lots with quality as bad as the AQL can be accepted with fairly high probability, the designation of an AQL does not suggest that this is necessarily a desirable quality level. The AQL is a parameter of the sampling scheme and should not be confused with a process average which describes the operating level of a manufacturing process. It is expected that the product quality level will be less than the AQL to avoid excessive non accepted lots.

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From the SELECT A LOT SIZE screen press the ADD A PROFILE button to access the ADD A PROFILE screen.

Add a Profile						
2 to 8 9 to 15 16 to 25 26 to 50 51 to 90 91 to 150 151 to 280 281 to 500 501 to 1200 1201 to 3200 3201 to 10000 10001 to 35000 35001 to 150000 500001 +	Special Inspection Levels S-1 S-2 S-3 S-4 Code Letter: A Input Item Data: Item # Item Name Lot Size: N Inspection Type: N # Concurret "good" to re	General Inspection Levels C I (One) C II (Two) C III (Three)				
About Exit	# Conncurret "fail" to tig	hten				
Save Profile						

The ADD A PROFILE screen allows the user to input the following item data to create a sampling profile:

Item #

Item Number

Lot Size

Inspection Type (Normal, Tightened or Reduced)

# Concurrent "good" to reduce

# Concurrent "fail" to tighten

Press the **SAVE PROFILE** button to save the sampling profile for future use.

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From the **SELECT A LOT SIZE** screen press the **SELECT A PROFILE** button to access the **SELECT A PROFILE** screen.

🔣 Select a profile				
	0001 🔼	ltem:	Test in VFP	
-	2538	38 Normal Single Inspection Tightened Single Inspection Reduced Single Inspection		
			Normal Double Inspection Tightened Double Inspection Reduced Double Inspection	
	E		Normal Multiple Inspection Tightened Multiple Inspection Reduced Multiple Inspection	

Use the menu slider to select a previously saved sampling profile. Once an item number is selected the **CODE LETTER** is automatically populated in the code letter field located below the menu slider and the item name is automatically displayed.

Select the required Inspection scheme.

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From the **SELECT A LOT SIZE** screen or any of the **INSPECTION LEVEL** screens press the **MAKE LOG ENTRY** button to access the **ENTER LOG DATA** screen.

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The ENTER LOG DATA screen allows the user to input the following data to create a sampling log, import or export log data and print the sampling result:

Enter the date of sampling into the Date Field:

Enter the LOT or BATCH number

Enter the Item Number

Select PASS or FAIL

Select (Normal, Tightened or Reduced)

Press the **SAVE LOG** button to save the sampling log for future use.

Press the **PRINT LOGS** button to print the sampling results.

Press the **BACKUP/EXPORT** button to select the backup/export folder destination.

Press the **RESTORE**/IMPORT button to select the previously backed up data storage location and name.