

Advanced Statistical Process Control eLearning | Control Charts & Variations Training

Control Charts and Process Capability - WXQS304-XX01XEN-E2
A

Objective 3: Describe How to Interpret Control Charts

Diagnosing Hugging – Splitting Zones

If the **measurements** seem to be hugging one of the control limit lines, or if the measurements seem to bounce from one control limit to the other, mark some different temporary lines on the chart.

Draw two light lines that divide the distance between the average line and the Upper Control Limit into three zones.

Do the same on the other side of the average line. The chart will now have six such zones.

Part Number	Part Name	Operation #	Operation Description
2220247	Bearing Sleeve	005	Receiving Inspection
Characteristic	Dimension/Tolerance	Check Method	Instrument # / Cal Date
	@ 4.75 ± .5	Caliper	982-97482 / 4/73 / 02/05
$\bar{X} =$	U.C.L. = 7.0	L.C.L. = 6.4	Sample Averages
7.3			
7.25			
7.2			
7.15			
7.1			
7.05			
7.0			
6.95			
6.9			
6.85			
6.8			
6.75			
6.7			
6.65			
6.6			
6.55			
6.5			
6.45			
6.4			
6.35			
6.3			
6.25			
6.2			
6.15			
6.1			

R=	U.C.L.=	L.C.L.=	Ranges

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eLearning Course: MXQS304

Statistical Process Control 2 eLearning builds on the key concepts of SPC, delving deeper into control charts and interpreting sources of variation. Learners look at assignable and system causes of variation. They gain experience in interpreting SPC data and determining process capability.

Teach Advanced SPC

Interpreting Control Charts

In this course, users will learn how to interpret control charts to identify patterns and determine if a process is out of control. They will learn about average lines, runs, trends, periodicity, and hugging. Specifically with hugging, learners will be shown how to diagnose hugging via control limits, midpoints, and splitting zones.

Identify Common Variation Sources

Learners will see examples of how materials, people, machines, and inspection methods can cause variation in a production process.

Interactive eLearning

Advanced Statistical Process Control eLearning Features Engaging Multimedia Curriculum

Amatrol's unmatched multimedia utilizes text, audio, and stunning 3D animations that engage learners in theoretical knowledge and concepts. This thorough, exceptionally detailed [curriculum](#) is built to begin with the basics and steadily advance to more complex concepts. Through partnerships with key industry leaders and leading edge educators, Amatrol developed the right balance of knowledge needed to train learners to work in their chosen field.

Additional Info

Requires:

- Computer [\(see Computer Requirements\)](#)
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