



# ASQ CRE Prep course

Lesson II. A. 7.

Statistical Process Control  
(SPC) and Process Capability



A wide-angle landscape photograph showing a coastline. In the foreground, there are rolling green hills with some yellowish-brown patches, possibly dry grass or low-lying shrubs. The middle ground features a deep blue sea meeting a rugged coastline with cliffs and a road. The background shows more distant hills under a sky filled with large, white, fluffy clouds. The overall mood is serene and expansive.

It's all about stability and capability

# SPC AND PROCESS CAPABILITY



A low-angle, wide shot of a city street, likely in New York City. In the foreground, a person wearing a light-colored, textured sweater and dark pants is walking away from the camera on the left side of the frame. The street is paved with asphalt and has a white painted crosswalk line running diagonally from the bottom left towards the center. A circular manhole cover is visible in the middle of the street. In the background, several cars are visible, including a yellow taxi and a dark SUV. The buildings lining the street are multi-story, with various windows and architectural details. The overall lighting is soft, suggesting an overcast day or late afternoon. The text "Statistical Process Control" is overlaid in a large, black, serif font across the middle of the image.

# Statistical Process Control



# Process Capability





# Role of Tolerances

The background of the image is a close-up of a brick wall. The bricks are in various shades of red, orange, and yellow, with some showing signs of weathering and discoloration. Two vertical pipes run down the left side of the frame. The pipe on the far left is dark and appears to be made of metal, with some rust or staining visible. The pipe next to it is lighter, possibly galvanized steel. A large, irregular red stain, resembling a blood splatter, is visible on the bricks in the center-right area of the image.

It all starts in  
design





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Control Charts