

# Invitation from ASQ Vancouver (BC) Section January 24, 2022 Virtual Meeting

**DATE:**

**Monday,  
January 24, 2022**

**This is a virtual/online meeting. Log-in information will be provided on the registration confirmation email.**

**Time:**

**6:00 pm – 7:30 PST**  
(check website to confirm time)

**Cost: Free for ASQ members and non-members**

To register for this online/virtual meeting, click [here](#).

**Attendance at this meeting earns 0.5 RUs toward ASQ recertification.**

NOTE: Be sure to use the same email address to join the virtual meeting as you use when registering in order to receive the RUs. You must register for the event and join virtually to receive RUs.

For more information about the Vancouver (Canada) ASQ Section 408, click [here](#).

For more information about our local Columbia Basin ASQ section and future upcoming events: [www.asq614.org/](http://www.asq614.org/)

## How Does Cpk and MSA Really Work Together?



### **Jd Marahevko, CMQ/OE, CQE, CSSBB and MBB VP of Quality, ZF Division U. Electronics & ADAS**

What do you know about process capability? Cp and Cpk are considered short-term potential capability measures for a process. Cp is the capability index. Cpk is the centering capability index. MSA is defined as an experimental and mathematical method of determining the amount of variation that exists within a measurement process. MSA is used to certify the measurement system for use by evaluating the system's accuracy, precision and stability.

This presentation is intended to be fun and educational. The presenter says "We will have fun reviewing the basics of Cpk/Cp, Ppk (the performance centering index) and Pp (the performance index). It sounds like alphabet soup; but it is really a nourishing meal!"

Bring your calculators and a scratch sheet of paper. You will be asked to exercise your brain.

After reviewing the basics again, it will all be tied in to variables Measurement System Analysis (MSA) and how and why that "10%" Gage Repeatability and Reproducibility (GRR) guidance needs to be understood for organizations and team members to make effective decisions.

*About the speaker: Jd Marahevko is a ZF VP of Quality in their Electronics & ADAS Division U. This role came on the heels of the Borg Warner (BW) purchase of Delphi Technologies where she was the global VP of Quality and Warranty. Jd was also a VP of Operations Americas for SAF-Holland and the SVP of Quality, Lean and EHS for Accuride. Four Accuride sites won the AME Excellence Award, and one site won the industry Week best manufacturing plant of the year.*

*In 2020, Jd was inducted into the inaugural USA's Women in Manufacturing hall of fame. She is an ASQ fellow, Shainin medalist, CMQ/OE, CQE, CSSBB and MBB. She is also an ASQ certified trainer, STEP ahead awardee and, in 2018, was recognized by Crain's as a notable woman in manufacturing. Jd holds a BSE and MSA. She is a past chair of the ASQ QMD and currently supports the QMD in a variety of capacities. Jd has co-authored several books and articles on Lean and Quality System, most notably, Accuride Corporation's Lean management 50-50-20 as well as a small vignette depicting their family's journey with autism, a sample size of one.*