

Date: June 11, 2019

Time: 8:30am-4:30pm

Ohlone College  
Newark Center Campus  
Room TBA

# APPLIED STATISTICS (WITH EMPHASIS ON RISK MANAGEMENT) IN MANUFACTURING, R&D, AND QA/QC — BASIC

## Life Sciences/Biotechnology Workshops

**THE WORKSHOP** This one-day workshop provides an introduction to (or a review of) the most commonly used basic statistical vocabulary, concepts, and tools used in the biotech industry. The major topics covered include: relevant regulatory requirements, basic statistical vocabulary and concepts, probability, Law of Large Numbers, standard deviation, standard error, distributions, normality, Central Limit Theorem, linear regression, and correlation coefficients. A working knowledge of algebra is a prerequisite, but prior statistical training is not. After finishing this workshop, the attendee will be better able to understand company SOP's on



statistics, and to better comprehend data-analysis sections of product validation protocols/reports. This workshop provides 0.7 recertification units for those seeking or renewing ASQ CQE or RQE or similar certifications. This workshop (or equivalent training/experience) is a prerequisite for attending the Intermediate or Advanced classes in this workshop series.

### THE INSTRUCTOR

**John Zorich** (MS, ASQ CQE) has worked in the biotech industry (in QA/QC, Mfg. and R&D) since 1979, and has been an independent statistical consultant and trainer to that industry since 1999. His consulting clients have included several large multi-national biotech companies as well as many Silicon Valley (SV) startups. He designs, validates, and sells statistical application software programs that have been purchased by more than 110 companies, world-wide. He's been the in-house statistical consultant and trainer since 2006 for DEKRA (one of the EU MDD "Notified Bodies"). He's taught seminars in Applied Statistics for many of his clients as well as for SV ASQ Biomedical, UC Santa Cruz Extension, San Jose State Univ. (Graduate Biomedical Dept.), and SV Polytechnic Institute. He's given more than 140 statistical seminars/webinars through commercial training companies since 2014. And he's taught this Ohlone workshop annually since 2005.

**Registration:** Enrollment fee is \$100.

<https://bit.ly/2IYWZ2D>

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Questions?  
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Sponsored by the Northern California Bay Area Biotechnology Center at Ohlone College in partnership with the Life Sciences/Biotechnology initiative of the California Community Colleges Chancellors Office of Workforce and Economic Development.

