

## ***JMP® Statistical Methods for FDA-regulated Industries***

September 22-25, 2025 in Fremont, CA  
*(please sign up by August 22, 2025)*

This workshop provides 32 hours of hands-on learning for Directors, Managers, Scientists, Engineers and Technicians in R&D, manufacturing and quality control. **By popular demand, the workshop is 100% hands-on with no lecture.** Instead, the instructor leads attendees through four workbooks that demonstrate the powerful workflows built into JMP® statistical software and their application in biotech/pharma. The workbooks include JMP exercises, concept visualizations, computer simulations and pencil-paper exercises. A majority of the workshop is spent on measurement integrity, process behavior studies and design of experiments.

Workbook Name	What you will learn
<i>Fundamentals</i>	<input type="checkbox"/> Fundamental analytic methods and mindset for biotech/pharma <input type="checkbox"/> Recurring themes, common mistakes and myths
<i>Process baseline</i>	<input type="checkbox"/> Evaluate measurement systems and data integrity (“MSA”) <input type="checkbox"/> Long-term monitoring of measurement systems <input type="checkbox"/> Control Point Studies and Process Output Studies (“SPC”)
<i>Process optimization</i>	<input type="checkbox"/> Observational approach <input type="checkbox"/> Experimental approach, augment designs to minimize cost (“DOE”) <input type="checkbox"/> Equivalence testing, TOST test
<i>Process monitoring</i>	<input type="checkbox"/> Long-term process behavior monitoring and sampling methods <input type="checkbox"/> Short run process behavior charts <input type="checkbox"/> Statistical methods for supplier management

### **Price of 32-hour workshop**

- \$2250 per person, payable 30 days after the workshop ends (with company PO) or in advance
- Includes an optional one-hour certification exam, but not software, travel costs, hotel, etc.

### **Benefits to attendees and their employer**

- Small class size with a **maximum of 12 attendees**
- Focus on higher yields, variation reduction, lower costs, higher profits and new knowledge
- Documented step-by-step workflows to study measurement systems and complex processes
- Useful templates for reporting results, standardizing work and writing material quality specs.
- Learn about Difference & Zed Charts, Gage Performance Curves, Manufacturing Specs, Converting Opinion to Continuous Data, Variation-as-a-Response, Clustering, DOE Evaluate Design, DOE Compare Design and other underutilized methods.
- Reduce variation in raw materials and defend against supplier price increases
- Improve external audit results

**For questions on course content:** [stephen.czupryna@pyzdekinsttute.com](mailto:stephen.czupryna@pyzdekinsttute.com)

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**To sign up:** [www.pyzdekinsttute.com](http://www.pyzdekinsttute.com)