

JMP® Statistical Methods for Biotech and Pharma

December 2 to 5, 2024 in Fremont, CA (please sign up by October 15, 2024)

March 10 to 13, 2025 in Fremont, CA (please sign up by January 31, 2025)

This workshop provides 4 days 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 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 4-day 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 **maximum 15 attendees**, typically 10-12 attendees.
- One-on-one and small group timeslots available before and after normal workshop hour
- 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@pyzdekstitute.com

For commercial information, including volume discounts: juan.rivera@pyzdekstitute.com

To sign up: www.pyzdekstitute.com