Compliant Calibration in the FDA Regulated Industry

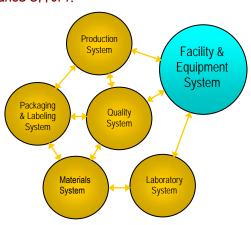


An Overview of the Calibration System requirements in a Regulated Environment "Maintaining the Validated State"

In order for a company regulated by the FDA to maintain the validated state of its equipment and facilities, it must calibrate its instruments and devices regularly. Instruments that are not calibrated at appropriate intervals are soon driven to a "state of greater disorder" by the laws of nature and lose their ability to accurately reflect process parameters. This slippage into a non-calibrated state cannot be seen or heard. It must be challenged (calibrated) to be discovered.

This "slippage" should be counteracted by a compliant calibration system, consistent with regulatory requirements, to sustain the validated state of the equipment. A calibration system that encompasses procedures, practices, and paperwork designed to ensure the instruments controlling the process are themselves, in control and able to manufacture product meeting predetermine quality attributes.

This **one day** seminar will present requirements for a Compliant Calibration as part of an overall Quality System. It will demonstrate how calibration, as a component of the Facilities and Equipment System of the FDA Quality Systems Approach to inspections, is a major, though often unheralded, part of the overall compliance effort.



Course topics include:

- Regulatory basis for Calibration and relationship to the validation effort
- The appropriate role for the Quality Unit
- Overview of Compliant Calibration Activities
- The Calibration Program requirements for characterizing instruments
- The Calibration Program requirements for and purposes of, classifying instruments
- Basic calibration procedure requirements
- How to develop calibration limits and tolerances and for which instruments
- Test Accuracy Ratio what is it and why we should care
- Out-of-Tolerance events how to minimize and how to handle
- Developing, reviewing, and approving calibration parameters
- Calibration Intervals relationship to quality and classification - how to avoid the numbers racket!
- When is calibration too much?
- Instrument identification
- Instrument files
- Qualification and training of in-house and contracted personnel and companies

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At Your Site, On Your Schedule

By presenting the two day Compliant Calibration Seminar at your site, you can avoid the travel and costs associated with that travel for multiple personnel. Plus you can have more people trained on the concepts of the Facility & Equipment Quality System Component than you may normally have the budget to send to an off-site course. For example if you sent four participants to an off site seminar at \$1800 per person plus expenses and unnecessary lost time, the total cost could exceed \$10,000! That is much more than an on-site presentation without limits on the number of attendees.

This seminar would be of value to:

Calibration & Maintenance Management
Calibration & Maintenance Technicians
Operations Management
Quality Unit Personnel
Validation Personnel
Technical Support Personnel

This session has been presented twice at a single site over a two day period, dividing the interested personnel into two groups to allow for coverage of ongoing operations.

This seminar is relevant, interesting, and at times, humorous. It has always been well received by the attendees and thought well worth the expense.

The Course Leader

Joseph T. Busfield is the Principal of Pharmaceutical Technical Services and has over 30 years experience in the pharmaceutical and related industries. His responsibilities have included: maintenance, instrumentation, utilities, project engineering, and validation for both oral dose and parenteral pharmaceutical manufacturing facilities and engineering companies. His experience in operating plants includes design, start up, validation and operation.

Joe has worked with clients under consent degree or other regulatory burdens and others trying to avoid such problems. He always works to develop sustainable, pragmatic programs that will withstand regulatory scrutiny. His major emphases are in maintenance, calibration, engineering, and general facilities related programs in the pharmaceutical, biotech, device and dietary supplement industries. His activities have been conducted throughout the US and Europe. He holds a B.S., (Mechanical Engineering) from Drexel University, and a M.B.A., (Management), from LaSalle University. Joe has served as an adjunct professor at several colleges teaching management and math courses and is a frequent speaker at seminars on Facility, Maintenance, and Calibration programs in the regulated industry.

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