

Improvement

Bob Di Rienzo ALS Laboratory Group Salt Lake City, UT TNI Assessment Forum January 26, 2010



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Objectives

- Definition of Improvement
- TNI Standard
- Lets Break it Down
- Improvements
- Examples of Improvements
- Audience Participation
- Conclusions



Definition of Improvement

- getting or making better: the process of making something better or of becoming better "an improvement on past performance"
- change or addition: a change or addition that makes something better
- change that adds value: a change or addition that increases value



4.10 Improvement (ISO/IEC 17025:2005)

The laboratory shall continually improve the effectiveness of its management system through the use of the quality policy, quality objectives, audit results, analysis of data, corrective and preventive actions and management review.



Lets Break it Down

The laboratory shall continually improve the effectiveness of its management system.....





Corrective Actions

Root Cause Analysis





Preventive Actions

Management Review





Non Conformance

Internal Audits





Peer Review

QC Data Review





Lower Detection Limits

New Equipment/Instruments



More Employees

Complaints and Customer Surveys



Confused Yet.....

What am I supposed to do?

What will assessors look for?

Let's Look Again



4.10 Improvement (ISO/IEC 17025:2005)

The laboratory shall continually improve the effectiveness of its management system through the use of the quality policy, quality objectives, audit results, analysis of data, corrective and preventive actions and management review.



Quality Policy (4.2.2)

Quality Objectives (4.2.2)

» Audit Results (4.14, 4.9, 4.11)



> Analysis of Data (4.9, 5.9)

Corrective Action (4.11)





Preventive Action (4.12)

Management Review (4.15)







Here are some examples and how they qualify as improvements







Analysis of Data (5.9)Preventive Action (4.12)

Statistical Process Control (SPC)







Statistical process control (SPC) is an effective method of monitoring a process through the use of control charts.





Control charts enable the use of objective criteria for distinguishing background variation from events of significance based on statistical techniques.







Much of its power lies in the ability to monitor both process center and its variation about that center.







Variations in the process that may affect the quality of the end product or service can be detected and corrected.







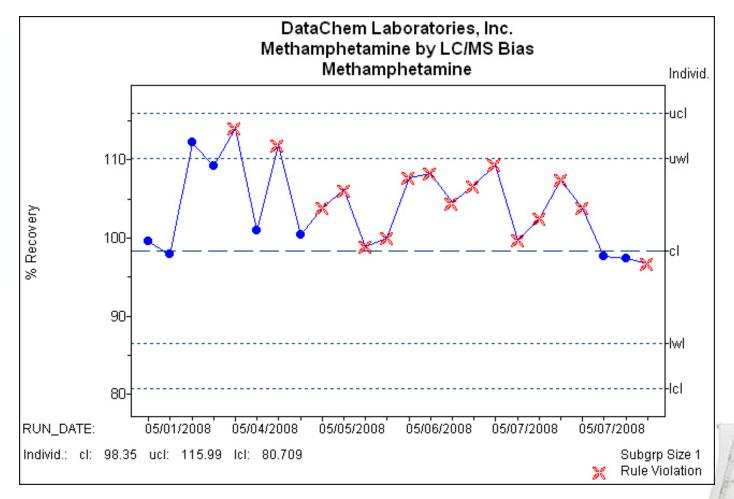
Statistical Process Control

Changes to Mean and Standard Deviation

> Trending (Real Time)

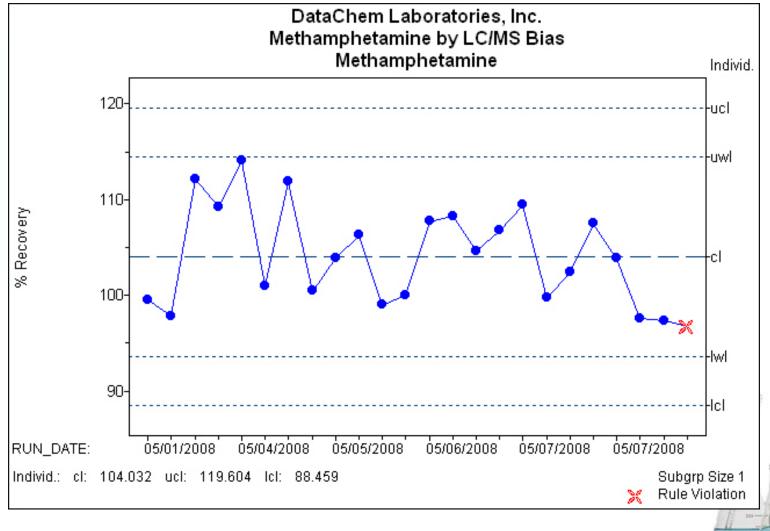
















Quality Policy (4.2.2) Preventive Action (4.12) Management Review (4.15)

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Reduce Waste



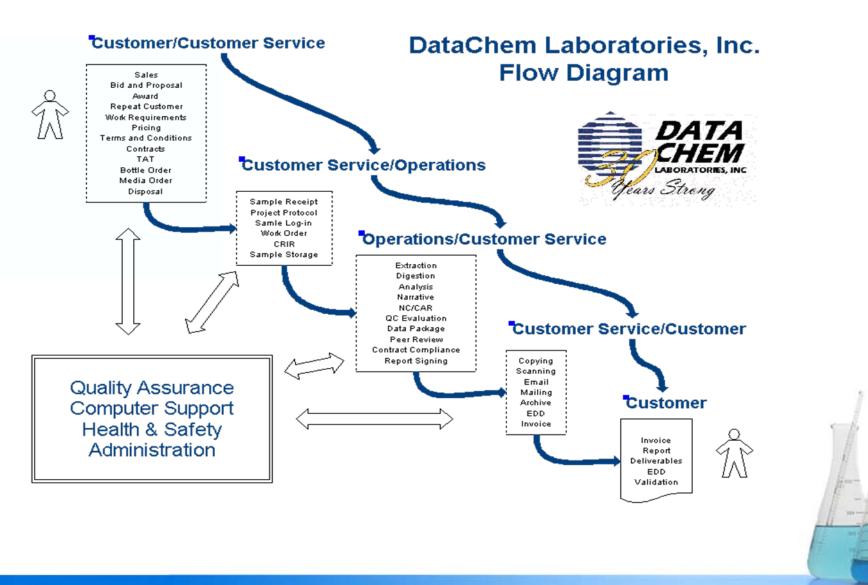
Apply Resources were needed





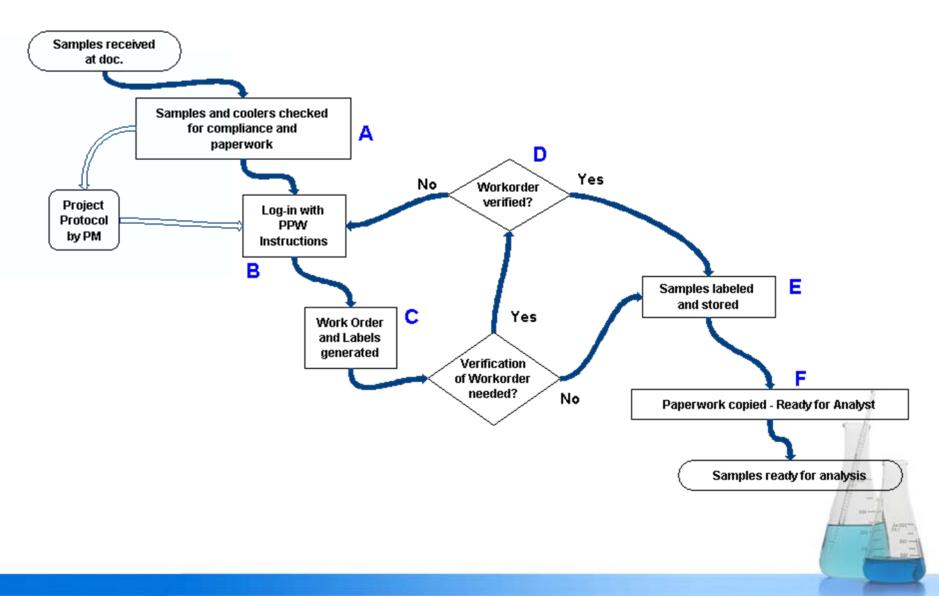


Flowcharts





Flowcharts





Reducing Waste

All systems are made up of processes

All processes are made up of tasks

The slowest task governs the output of a process



Applying Resources

□Time = Waste

Apply limited resources to slowest task in process





Preventive Action (4.12) Corrective Action (4.11) Management Review (4.15)

Process Improvement



Process Improvement

A series of actions taken by a Process Owner to identify, analyze and improve existing processes within an organization.



Process Improvement

Success = Champion, Training on Expectations, and Reward





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Process Improvement

Process Improvements are ways to:

- Reduce Cost
- Improve Quality
- Reduce cycle times
 - Exceed Customer Expectations
 - Reduce Redundancy
 - Improve Financial Performance
 - Reduce TAT
 - Improve TAT Performance





Audience Participation

Laboratories and Assessors Please come to the microphone and share your ideas on Improvement





"Think left and think right and think low and think high. Oh, the things you can think up if only you try!"

Dr Seuss