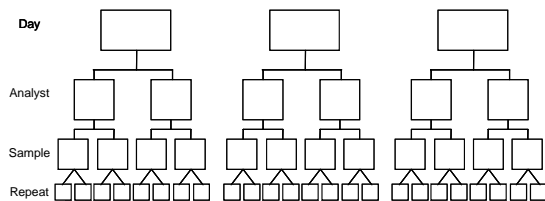


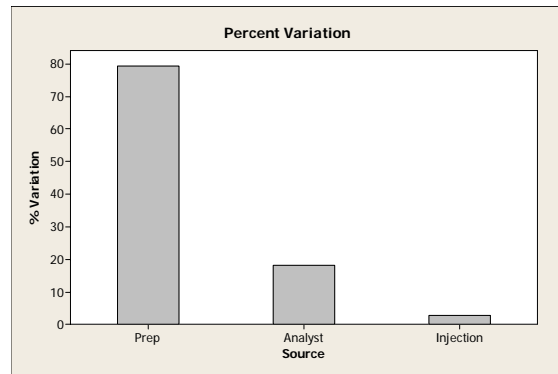
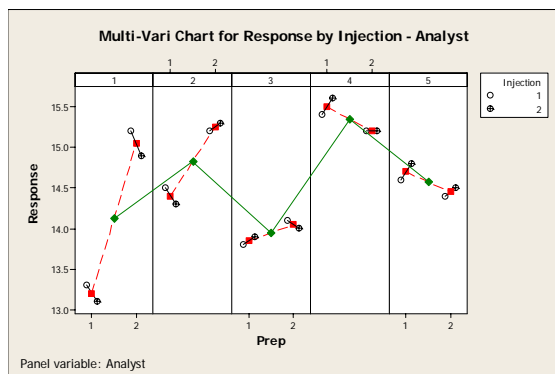
Variation Management

This one-day workshop builds on the ideas discussed in the *Understanding Variation* workshop which demonstrates how process behaviour charts screen out routine variation in your process and enable you to detect signals that the process has changed. If you find evidence of exceptional variation, the next step is to identify and control/eliminate the causes. However, if there is no evidence of exceptional variation, and the routine variation is unacceptably large, what can you do to manage it?

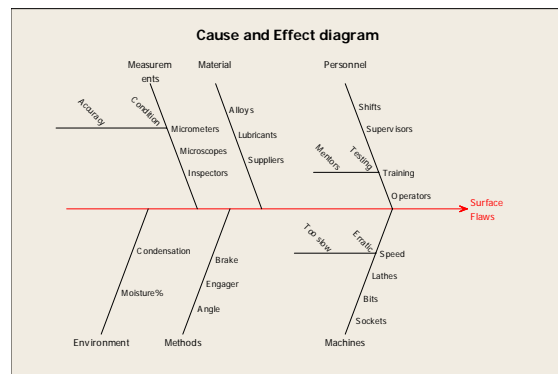
This workshop will show you how to investigate the nature of routine variation in your process by collecting data that enables you to identify the factors that contribute to it, e.g., operator or analyst, measurement system, e.g., Assay, equipment or instruments.



You will be shown how to straightforward statistical tools to quantify the variation in your process attributable to different sources such as, operators or analysts, processing equipment and measurement instruments, etc.



Having quantified the magnitude of each source of variation, the next step is to reduce or manage the biggest sources so that the overall variability in your process is reduced.



The workshop will be run using your preferred statistical software package, e.g., Minitab or JMP. A number of case studies will be included in the training materials to demonstrate the use of the variation management tools.

Benefits to You

At the end of the workshop you will be equipped with the know-how to investigate and quantify sources of routine variation in your processes and measurement systems. The benefits of controlling variation in your process include:

- greater confidence in the robustness of your process
- increased process capability, i.e., reduced risk of failing to meet specifications