



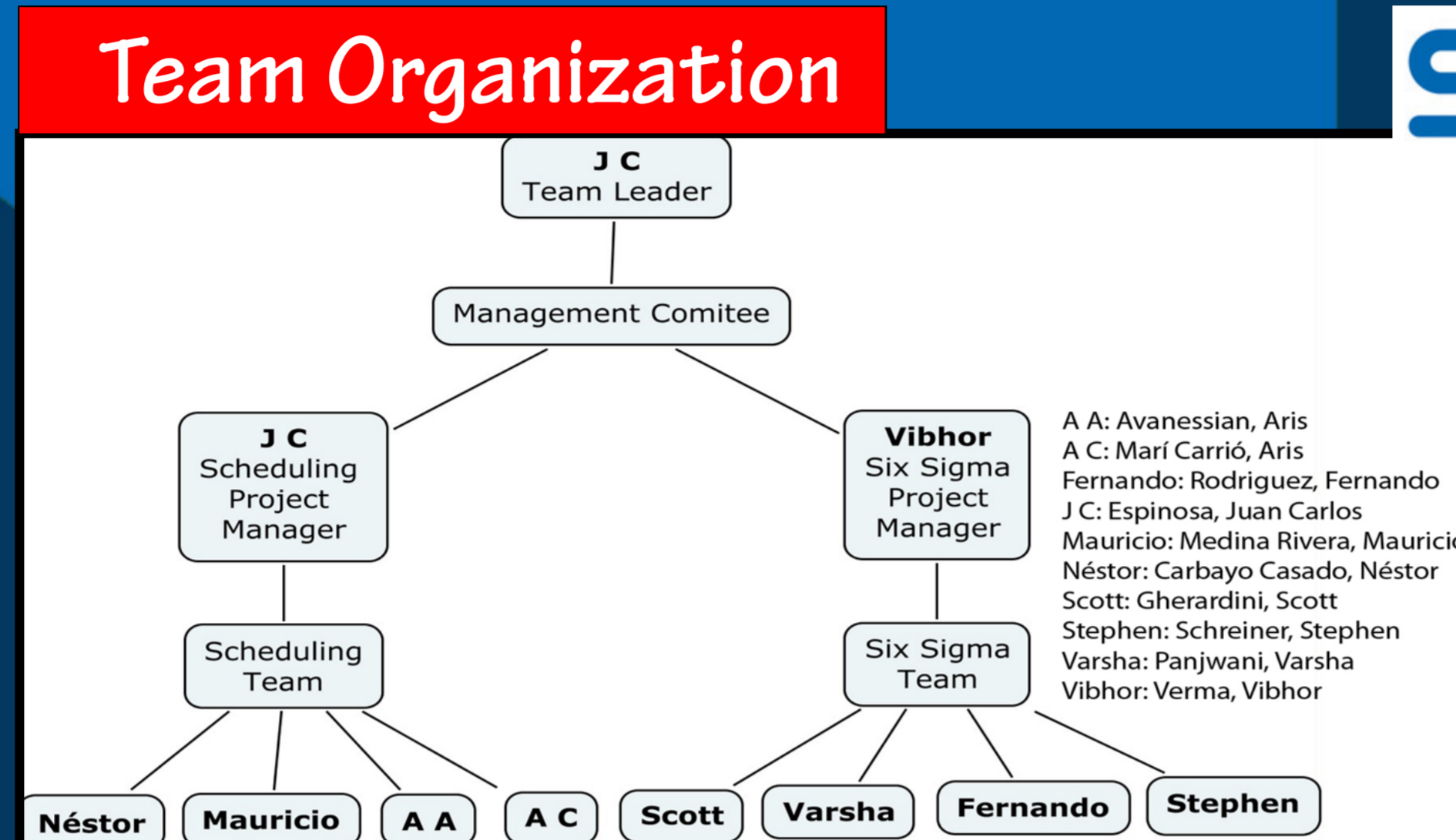
Six Sigma seeks to improve quality of process outputs by identifying and removing the causes of defects (errors) and variation in manufacturing and business processes.

IPRO 306

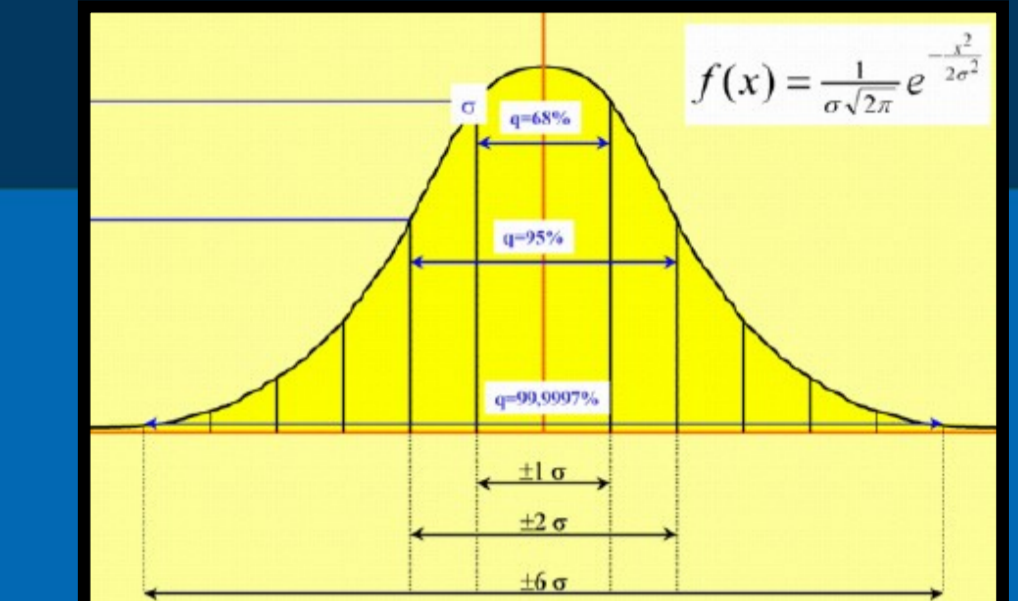
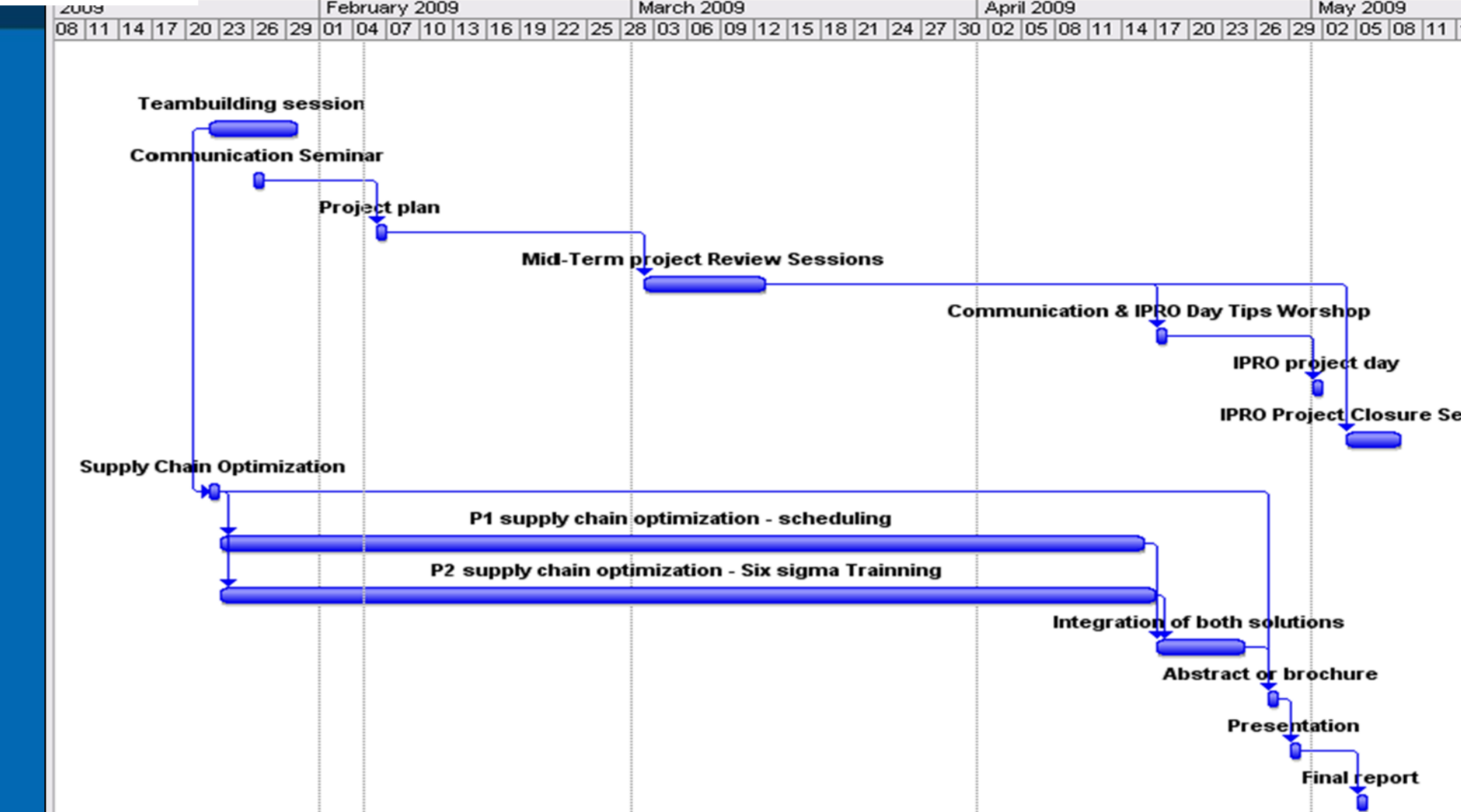
Value Stream Analysis of A Global Supply Chain



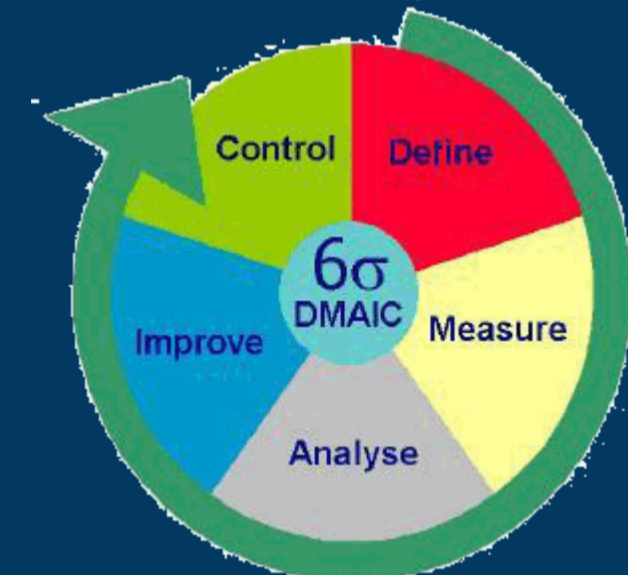
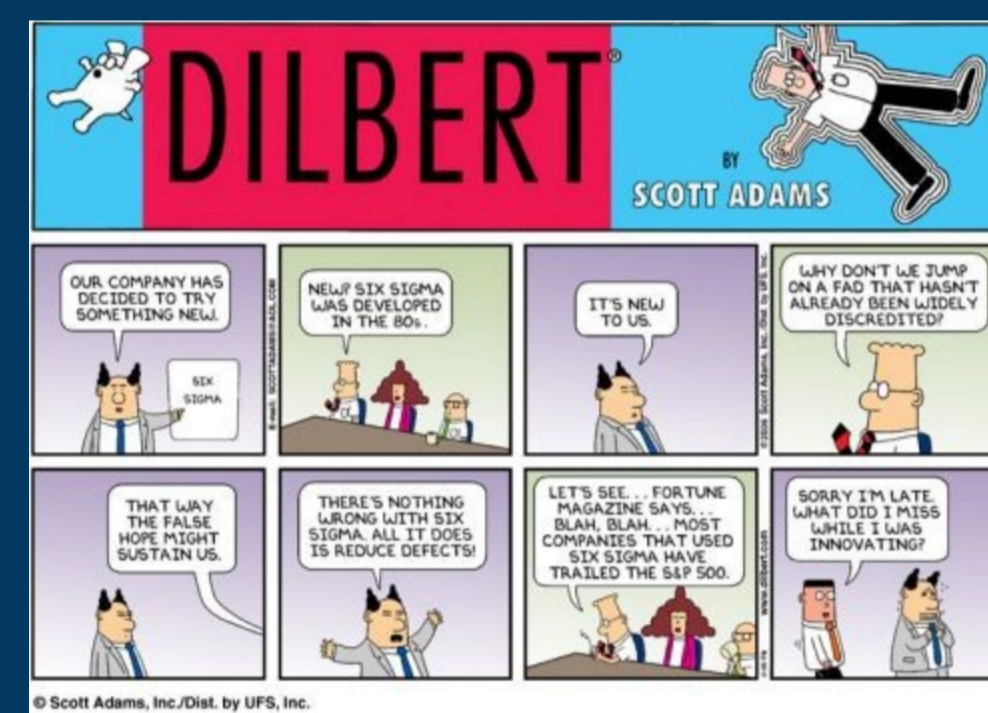
Six Sigma is a highly disciplined process focused on excellent quality standards. The steps for many organizations are described as DMAIC.



Gantt Chart



The term "six sigma process" comes from the notion that if one has six standard deviations between the process mean and the nearest specification limit, there will be practically no items that fail to meet specifications.



Problem Statement

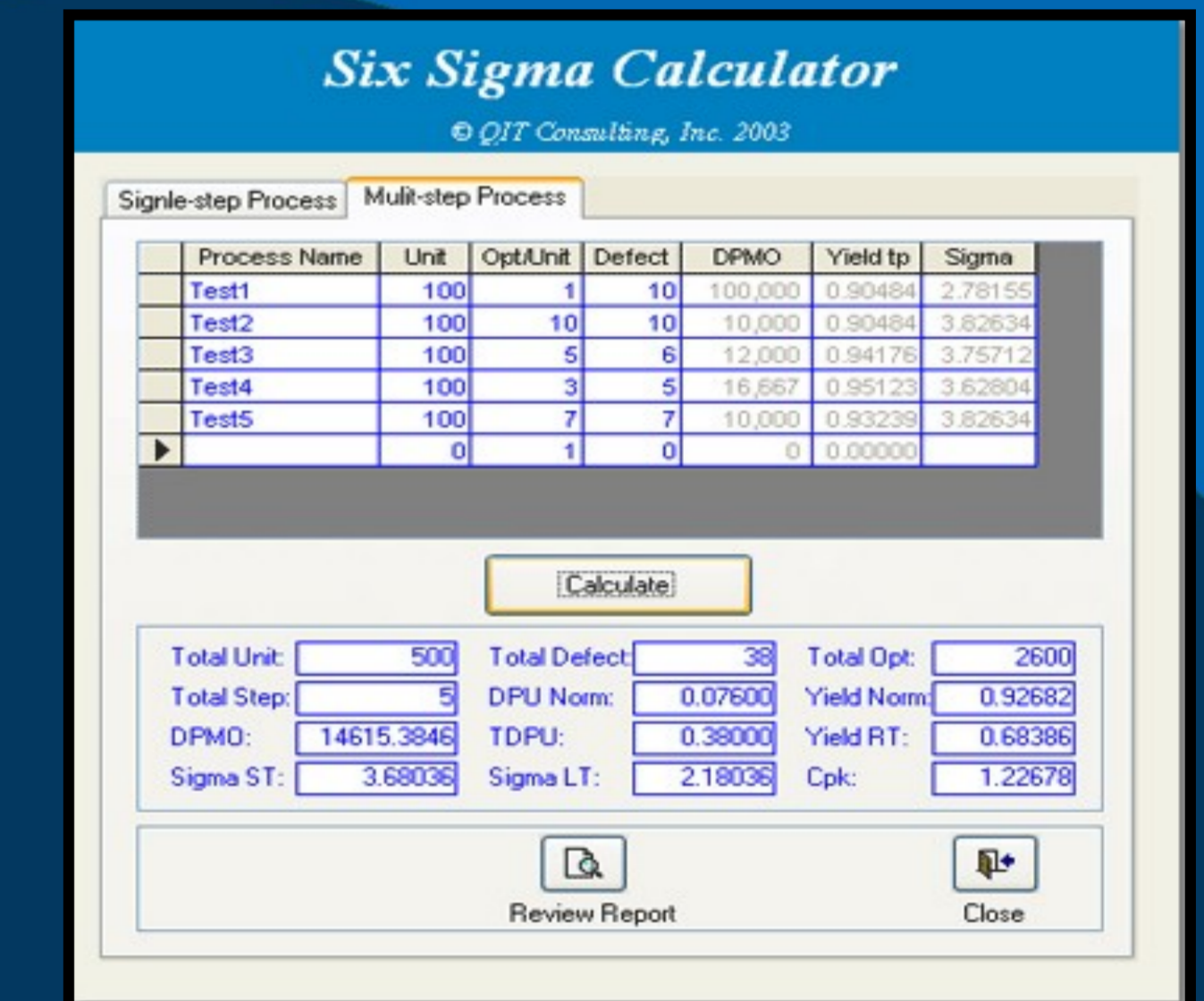
- No production schedule
- Inventory shortages or overstock
- Poor inventory integrity
- Promise inaccurate shipping dates to customers

Objectives

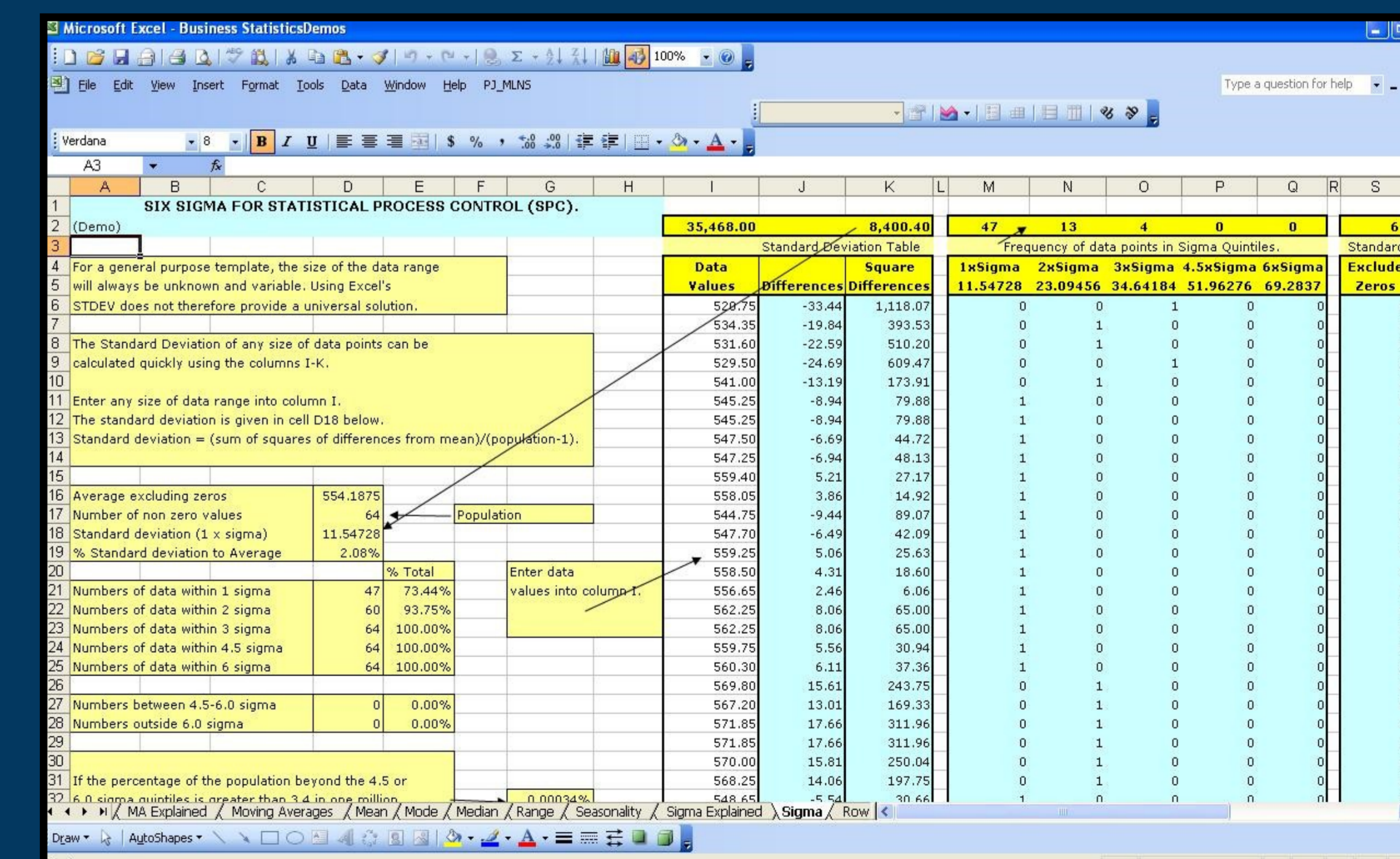
- Create a scheduling protocol using SAP
- Eliminate Over stocks and Inventory Shortages
- Minimize obsolescence through better planning
- Increase accuracy of shipping dates
- College level 6 sigma training package
 - 6 sigma approach to inventory integrity
 - Green belt certificate
 - Help with the delivery of the training

Results of Six Sigma

- Complete Training Package
 - Includes around 200 slides of training material
 - Includes numerous handouts and glossaries
 - Includes basic teaching syllabus based off the ASQ Six Sigma
- Green Belt Body of Knowledge
 - Worked with Sloan Valve to locate hardcopy and electronic reference materials including the Villanova University Six Sigma Black Belt Handbook for us
- Impact: Allows Quality Process Manager
 - Robert Briggs and Six Sigma trained Quality Champions in worldwide Sloan operations to do in-house training programs for their staff members, allowing proliferation of the Six Sigma initiative within Sloan Valve.
- Value: Six Sigma Green Belt training programs generally cost \$2000-\$5000 dollars per applicant. This allows Sloan Valve to conserve those funds and do in-house training instead.



Six Sigma calculator is a supporting tool to help identify the causes of defects and variation in processes within the facility.



Six Sigma is a management strategy to use statistical tools and project work. Above you can see a spreadsheet which monitors a statistics process control under Six Sigma focus.

