ISL-Certified Six Sigma Champion Program

Dr.R.S.Chalapathi Master Black Belt

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Evolution of Six Sigma Approach

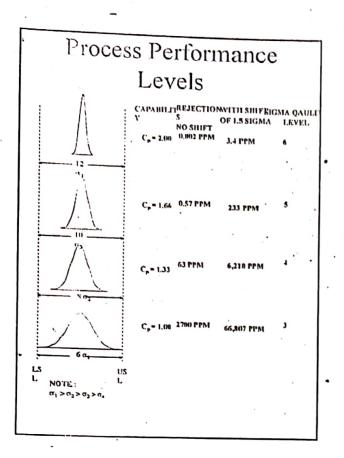
- 1981: The 10X Goal
- 1985: the communications sector established a single metric quality, Total Defects per Unit (DPU).
- 1987: restated corporate goal to achieve six sigma performance by 1992.
- 1988: Became first to get MBNQA
- 1990: Six Sigma Research Institute

Learning Objectives

- At the end of the training the Six Sigma Champion will be able to:
 - Make a six sigma roadmap for their organization.
 - Select Right Six Sigma projects.
 - Select Right people as Black Belts.
 - Conduct Structures project reviews.

Six Sigma at GE

- Define phase added to the original 'MAIC' methodology.
- Soft Skills integrated with the Black Belt Body of Knowledge (BoK).
- Scope of the Six Sigma initiative has changed from 'manufacturing' to the entire business – Services, Product design and Innovation.
- Highly focused leadership.



Six Sigma Philosophy

- Six Sigma is about the abatement of risk in everything a business does or delivers.
 - All defects or errors represent risk but not all forms of risk can be characterized in terms of defects.
- Six Sigma is a new science of doing business:
 - Six Sigma Problem Solving (DMAIC)
 - Design for Six Sigma (DFSS)
 - Managing for Six Sigma

Achieving Six Sigma Quality

- To put it in simple terms the six sigma approach focuses on reducing variability and reaching excellence. This is achieved by working on the following four key strategies:
 - Process standardization.
 - Process Stability.
 - Capability Improvement.
 - Robust Design.

What is Quality?

Traditional definition

 conformance to standards Six Sigma definition

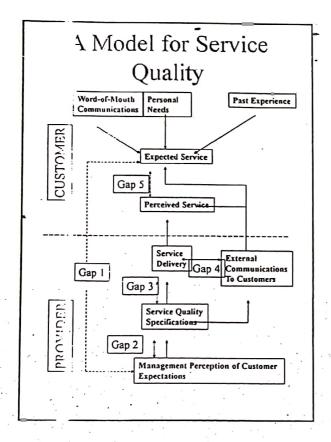
 Quality is a state in which value entitlement is realized for the customer and provider in every aspect of the business relationship.

Quality Attributes

Froduct Oftwar	Service	
Conformance Performance Features Feliability Carability	Tangibles Reliability Responsivenes S Competence Courtesy Credibility Security Access Communicatio n Understanding the customer	Correctnes s Reliability Integrity Usability Efficiency Maintaina bility Flexibility Testability Interopera bility Reusability y Portability

Six Aspects of Six Sigma Thinking

- Six Sigma is a new way of doing business.
- Six Sigma thinking is synergy between the following six aspects:
 - Business Thinking.
 - Systems Thinking.
 - Statistical Thinking.
 - Creative Thinking.
 - Emotional Thinking.
 - Lean Thinking.



Six Sigma Organizational Structure and Roles

- Champion responsible for overall deployment
- Master Black Belt Helps Champion & Coaches Black Belts
- Black Belt Implements projects
 & Coaches Green Belts
- Green Belt Works as a member in Black Belt Projects. May work on small projects independently.

Role of Six Sigma Champion

- dentifying the business and emoving the roadblocks in achieving high performance with Six sigma.
- Insuring that the process owner's support is there during all phases.
- ocusing on Black Belt levelopment.
- incouraging follow-up and monitoring activities.
- larefully selecting high impact rojects.
- lelping transfer of project whership from Black Belt to line hanagers who own the process upon ompletion of the corrective actions ontrol phase).

Green Belts

- Green Belts are employees throughout the organization, who execute Six Sigma as a part of their overall job.
- While working with the Black Belts, they gain experience in the practical application of the Six Sigma methodology and tools.
- Normally, everyone in the organization is expected to become a Green Belt.
- · Role of Green Belts
 - Work as a team member in Black Belt projects
 - Lead smaller improvement projects within their respective areas.

ix Sigma Black Belt

- mplement the Six Sigma
 sthodologies
- entify, lead breakthrough
 ojects and achieve significant
 ults, which impact the
 ottom line
- Ise statistical tools
- cilitate and coach the team ployment
- Export champions in Six una deployment

Critical Success Factors

- · Initiate the Change
 - Right Projects.
 - Right People.
 - Right Application Roadmap & Tools.
- Sustain the Change
 - People and Team Development.
 - Right Strategies to dealing with difficult people.
 - Integrate Six Sigma with other Organizational Systems.