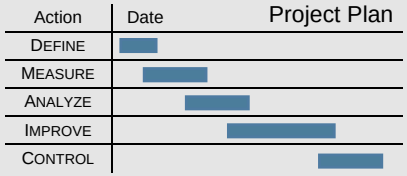
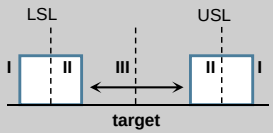
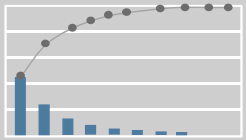
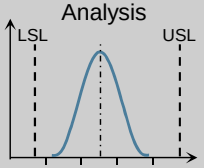
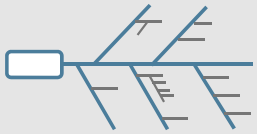
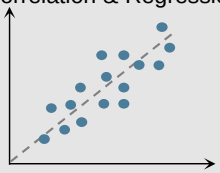
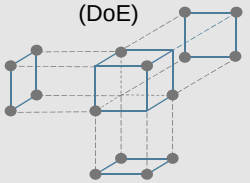
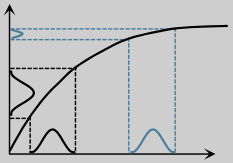
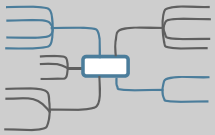
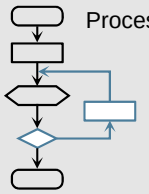
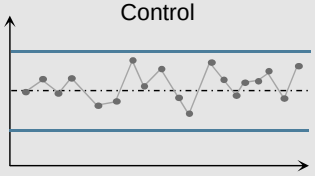
DMAIC-Roadmap
(focus of tools: production processes)

Six Sigma-Roadmap

Project Management

Phase	Objective	Main Tasks	Tools	Results
Define	- Define improvement project	– Describe current situation – Generate process overview – Explore customers and their requirements – Define project	SIPOC-Model Project Plan 	– Overview of the situation to be improved – Clearly defined customer requirements – Project assignment
Measure	- Determine the actual status	– Detail process flow – Assure measurement system capability – Interpret available data – Acquire and analyse data – Identify process capability	Measurement System Analysis  Pareto Analysis  Process Capability Analysis 	– Understanding of the situation based on facts an figures
Analyze	- Identify relevant causes	– Identify main influencing variables – Quantify cause and effect correlation	Cause & Effect Analysis  Correlation & Regression  Design of Experiments (DoE) 	– Proven interrelationship of cause and effect
Improve	- Develop and verify solution	– Develop potential solutions – Evaluate solutions and select solution – Test selected solution and prove effectiveness – Plan implementation	Robust Design  Creativity Techniques  FMEA S O D RPN Action 9 8 3 216 name / wkX 9 2 2 (36) name / wkX	– Optimised and tested solution – Release for implementation
Control	- Implement optimised solution and secure sustainability	– Embed solution within the organisational structure – Secure improvement sustainably – Close project	 Process Flow Statistical Process Control  Training 	– Improved status sustainably secured and accepted by process owner – Improvements and savings evaluated – Formal project closure

StEP-Up
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