Manufacturing Process Improvement Plant Process Cost/Benefit Analysis

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Quality Improvement (DMAIC Model)

Define the Problem

Measure

Baseline Performance

Document the Process

Validate the Measurement System

Analyze: Data Collection and Analysis

Improve:

Design of Experiment

Implementation of Effective Remedy

Control: Inspection & Control Charts/Trend Analysis

Quality Planning and Analysis:

Cost of Quality Marketing Research Quality Culture Operations of Quality System

Continuous Product/Process Improvement

Fundamentals

<u>Six Sigma</u>

Reduce Variation Improving Effectiveness

Lean Process

Achieve Flow and Pull Improving Efficiency

Continuous Product/Process Improvement

Quality Improvement Models

DMAIC (Six Sigma)	SDFLP (Lean)
Define	Specify Values
Measure	Demand
Analyze	Flow
Improve	Level
Control	Perfection

Continuous Product/Process Improvement

Quality Improvement Tools

Six Sigma	Lean Process
COPQ	5 S
ANOVA	Mapping/Demand
DOE	Kaizen
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OC/OA Process Cost/Benefit Analysis

Cost of Bad Quality

Product/Process Failure

Product Detection

Cost of Maintaining Quality

Prevention Cost

Auditing Cost

Prioritize High Impact Projects

Project Management

Operation Management

Business Analysis

Marketing Research

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