

Торіс	LEAN6SIGMAPRO	TUV SUD	IASSC	ASQ	EXEMPLAR GLOBAL	KPMG
Intro						
1.0 Introduction to Quality	\checkmark	\checkmark		\checkmark		
2.0 Quality Leaders (Juran, Deming, Shewhart, Ishikawa) (Videos to Understand)	\checkmark	\checkmark		\checkmark		
3.0 Cost of Quality (COQ)	\checkmark	\checkmark			\checkmark	
4.0 Cost of Poor Quality (COPQ) (Videos to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
5.0 Optimum Quality Levels	\checkmark	\checkmark				
6.0 Failure Mode & Effect Analysis (FMEA)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
6.1 Create Process FMEA (Videos to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
6.2 Create Design FMEA	\checkmark		\checkmark	\checkmark		
7.0 Key Business Drivers & their Impact	\checkmark	\checkmark		\checkmark		
7.1 Profit/Margin (Practice to Understand)	\checkmark	\checkmark		\checkmark		
7.2 Market Share	\checkmark	\checkmark		\checkmark		
7.3 Customer Satisfaction	\checkmark	\checkmark		\checkmark		
7.4 Product Differentiation	\checkmark	\checkmark		\checkmark		
7.5 Cost Benefit Analysis (CBA)	\checkmark	\checkmark	\checkmark			
7.6 Hard & Soft Benefits (Practice to Understand)	\checkmark	\checkmark				
7.7 Cost avoidance & Cost reduction (Practice to Understand)	\checkmark	\checkmark				
8.0 Organization Goals & Six Sigma	\checkmark	\checkmark		\checkmark	\checkmark	
9.0 Six Sigma & Balanced Score card	\checkmark			\checkmark		
10.0 History & Evolution of Six	\checkmark	\checkmark	\checkmark	\checkmark		
Sigma 11.0 Continuous Improvement /		<u> </u>	\checkmark			
Kaizen blitz	¥	v	v	v		v
12.0 Basics of Six Sigma (Simulation to Understand)	\checkmark	\checkmark	\checkmark	\checkmark		
12.1 The Problem Solving Strategy Y = f(x) (IASSC) - (Topic to be added in Web)	\checkmark	\checkmark	~		~	~
13.0 Six Sigma Applications	\checkmark	\checkmark		\checkmark		



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Intro						
14.0 Types of Six Sigma Projects	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
14.1 DMAIC	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
14.2 DFSS / DMADV / IDOV	\checkmark			\checkmark		
15.0 Change Management (Simulation & Videos to Understand)	\checkmark	\checkmark				
16.0 Six sigma Indicator	\checkmark				\checkmark	

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Define						
1.0 Voice of Customer & Business(Simulation to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
1.1 Collect Customer & Business Voices	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
1.2 Eliminate Vagueness Ambiguity	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
1.3 VOC Clarity Table	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
2.0 Kano Model (Practice to Understand)	\checkmark	\checkmark			\checkmark	
3.0 Benchmarking	\checkmark	\checkmark		\checkmark	\checkmark	
3.1 Competitive	\checkmark	\checkmark		\checkmark	\checkmark	
3.2 Collaborative	\checkmark	\checkmark		\checkmark	\checkmark	
3.3 Best Practices	\checkmark	\checkmark		\checkmark	\checkmark	
4.0 Customer Requirements to Process Requirements	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4.1 Critical to X (X-Quality, Cost, Safety or any other)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4.2 CTQ Drill Down	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4.3 Quality Function Deployment	\checkmark	\checkmark		\checkmark	\checkmark	
5.0 Project Section (Practice to Understand)	\checkmark	\checkmark		\checkmark	\checkmark	
6.0 Process Owners & Stakeholder Analysis	\checkmark	\checkmark		\checkmark		\checkmark



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Define						
7.0 Project Charter (Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.1 Business Case	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.2 Problem Statement	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.4 Project Team	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.5 Project Timeline	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.6 Project Scope	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.7 Expected Benefits	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.8 Project Communication	\checkmark	\checkmark		\checkmark		
8.0 Financial Evaluation	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
9.0 Develop Project Metrics	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
10.0 Project Short &Long Terms Gain (Practice to Understand)	\checkmark	\checkmark	\checkmark			\checkmark
11.0 Project Risk Analysis	\checkmark	\checkmark		\checkmark	\checkmark	
12.0 Project Roles & Responsibilities	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
13.0 Project Team Dynamics	\checkmark	\checkmark		\checkmark		
13.1 Forming	\checkmark	\checkmark		\checkmark		
13.2 Storming	\checkmark	\checkmark		\checkmark		
13.3 Norming	\checkmark	\checkmark		\checkmark		
13.4 Performing	\checkmark	\checkmark		\checkmark		
13.5 Adjourning	\checkmark			\checkmark		
13.6 Group Thinking	\checkmark			\checkmark		
13.7 Team Communication & Tools	\checkmark			\checkmark		
13.8 Identify and help resolve negative dynamics - overbearing, dominant, or reluctant participants	\checkmark			\checkmark		
13.9 The unquestioned acceptance of opinions as facts, groupthink, feuding, floundering, the rush to accomplishment, attribution, discounts, digressions, and tangents.	\checkmark			\checkmark		



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Define						
14.0 Project Management & Analytical Tools	\checkmark	\checkmark		\checkmark	\checkmark	
14.1 Gantt Charts	\checkmark	\checkmark		\checkmark	\checkmark	
14.2 Interrelationship Diagram	\checkmark	\checkmark		\checkmark		
14.3 Process Decision Program Chart (PDPC)	\checkmark	\checkmark		\checkmark		
14.4 Work Breakdown Structure	\checkmark	\checkmark		\checkmark	\checkmark	
14.5 Critical Path Method (CPM) (Simulation to Understand)	\checkmark	\checkmark		\checkmark		
14.6 Project Evaluation & Review Technique	\checkmark	\checkmark		\checkmark		
14.7 RACI model	\checkmark	\checkmark			\checkmark	
14.8 Activity Network Diagram	\checkmark	\checkmark		\checkmark		
14.9 Tree Diagram	\checkmark	\checkmark		\checkmark		
14.10 Matrix Diagram - Prioritization Matrices	\checkmark	\checkmark		\checkmark		\checkmark
14.11 Project Documentation	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
15.0 Project Scope (Using process maps, pareto chart & other Quality tools)	\checkmark			\checkmark	\checkmark	\checkmark
16.0 SIPOC & Process Mapping (Simulation to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
16.1 Process Elements - Define and describe process components and boundaries. Recognize how processes cross various functional areas and the challenges that result for process improvement efforts.	\checkmark			\checkmark		
17.0 Service Delivery Modelling	\checkmark				\checkmark	
18.0 Project Tool Gate Review	\checkmark	\checkmark		\checkmark		\checkmark



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Measure						
1.0 Process Analysis & Documentation	\checkmark	\checkmark		\checkmark	✓	\checkmark
1.1 Process Flow Charts	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
1.2 Work Instructions &Gap Analysis	\checkmark			\checkmark		
2.0 Types of Data & Measurement Scale (Simulation to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
2.1 Continuous (Variable) Data	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
2.2 Discrete (Attribute) Data	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
2.3 Nominal Data	\checkmark	\checkmark		\checkmark		\checkmark
2.4 Ordinal Data	\checkmark	\checkmark		\checkmark		\checkmark
2.5 Interval Measurement	\checkmark			\checkmark		\checkmark
2.6 Ratio Measurement	\checkmark			\checkmark		\checkmark
3.0 Population & Sampling	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
3.1 Basics of Sampling	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
3.2 Sample Size	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark
4.0 Type of Samples (Simulation to Understand)	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
4.1 Random Sample	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
4.2 Systematic Sample	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
4.3 Stratified Sample	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
5.0 Basics of Statistics (Simulation to Understand)	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
5.1 Central Tendency	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
5.2 Dispersion	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
5.3 Proportion	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
6.0 Introduction to Statistical Software (Minitab)	\checkmark	\checkmark				\checkmark
6.1 Minitab Practice	\checkmark	\checkmark				\checkmark
6.2 Descriptive Statistics	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
6.3 Inferential statistics	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark



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Measure						
7.0 Statistical Distributions (Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.1 Normal	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.3 Binomial	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.3 Poisson	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.4 Chi-Square	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark
7.5 Student's T	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.6 F distribution	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
8.0 Basics of Probability (Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
8.1 Permutations & Combinations	\checkmark			\checkmark		
8.2 Mutually exclusive events	\checkmark			\checkmark		
8.3 Multiplication rules	\checkmark			\checkmark		
8.4 Frequency Distribution	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
8.5 Cumulative Frequency Distribution	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
8.6 Inverse Cumulative Frequency Distribution	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
9.0 Central Limit Theorem (Simulation to Understand)	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
10.0 Measurement & Data Collection	\checkmark	\checkmark	\checkmark			\checkmark
10.1 What is Measurement	\checkmark	\checkmark	\checkmark			\checkmark
10.2 Operation Definition	\checkmark	\checkmark	\checkmark			\checkmark
10.3 Data Collection Plan (Simulations to Understand)	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark
11.0 Graphical Analysis (Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
11.1 Pareto	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
11.2 Scatter Plot	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
11.3 Box Plot	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
11.4 Histogram	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
11.5 Stem & Leaf Plots	\checkmark	\checkmark		\checkmark		\checkmark
11.6 Time Series Plot	\checkmark					



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Measure						
11.7 Run Chart	\checkmark				\checkmark	
11.8 Trend Chart	\checkmark				\checkmark	
11.9 Normality (using Minitab)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
11.10 Graphical Summary	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
12.0 Variation & Measurement System Analysis	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
12.1 Understanding Variations (Simulation to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
12.2 Measurement System Analysis (MSA)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
12.2.1 Discrimination	\checkmark	\checkmark			\checkmark	\checkmark
12.2.2 Accuracy	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
12.2.3 Precision	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
12.2.4 Stability	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
12.3 GRR for Continuous Data (Simulation to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
12.4 GRR for discrete Data (Simulation to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
12.5 Control Charts & Stability (Simulation to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
13.0 Baseline Process Performance (Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
13.1 Baseline Discrete Data (DPU, DPO, DPMO)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
13.2 Baseline Continuous Data (Cp, Cpk, Pp, Ppk, Cpm)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
13.3 Sigma Value (Short term & Long term)	\checkmark			\checkmark	\checkmark	
13.4 Sigma Shifts (Short term Vs Long term)	\checkmark			\checkmark	\checkmark	
14.0 Process Capability in Detail (Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
14.1 Natural Process Limits & Specification Limits	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
14.2 Design & Conducting Process Capability Studies	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
14.3 Specifications, Sampling Plan, Stability & Normality	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark



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Measure						
14.4 Capability for Normal & Non-Normal Data	\checkmark		\checkmark			
14.5 Process Performance (PPM, DPU, DPMO)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
14.6 Transformations (Box-Cox & Johnson transformation)	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark

Торіс	LEAN6SIGMAPRO	TUV SUD	IASSC	ASQ	EXEMPLAR GLOBAL	KPMG
Analyze						
1.0 Identify Potential Causes (Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
1.1 Brainstorming	\checkmark	\checkmark			\checkmark	\checkmark
1.2 Affinity Diagram	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
1.3 Cause & Effect Diagram	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
1.4 Five Whys?	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
2.0 Process Analysis	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
2.1 Value Stream Mapping (Recap from Lean)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
3.0 Data Analysis	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4.0 Normal Curve & Normality Test(Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
5.0 Confidence Interval, Risk, P value	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
6.0 Hypothesis Testing -Null & Alternate	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.0 Alpha & Beta Risks (Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
8.0 Hypothesis with Normal Data(Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
8.1 1 Sample T	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
8.2 2-Sample T	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
8.3 Paired T	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
8.4 One-Way Anova	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
8.5 Test of Variance	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark



Торіс	LEAN6SIGMAPRO	TUV SUD	IASSC	ASQ	EXEMPLAR GLOBAL	KPMG
Analyze						
9.0 Hypothesis with Non- Normal Data(Practice to Understand)	\checkmark	\checkmark	\checkmark			
9.1 1 Sample Sign	\checkmark	\checkmark	\checkmark			
9.2 1 Sample Wilcoxon	\checkmark	\checkmark	\checkmark			
9.3 Mann-Whitney	\checkmark	\checkmark	\checkmark			
9.4 Kruskal-Wallis	\checkmark	\checkmark	\checkmark			
9.5 Mood's Median	\checkmark	\checkmark	\checkmark			
9.6 Friedman	\checkmark		\checkmark			
10.0 Hypothesis with Discrete Data (practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
10.1 1Proportion	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
10.2 2Proportions	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
10.3 Chi-Square	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
11.0 Multi Vari chart (Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark		
12.0 Correlation & its Terminologies	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
13.0 Correlation & Causation	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
14.0 Linear Regression Analysis (Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
15.0 Non- Linear Regression	\checkmark		\checkmark			
16.0 Residual Analysis	\checkmark		\checkmark			
17.0 Design of Experiments	\checkmark	\checkmark		\checkmark	\checkmark	
17.1 Need for DOE	\checkmark	\checkmark		\checkmark	\checkmark	
17.2 Factors, Levels, Response, Treatment	\checkmark	\checkmark		\checkmark	\checkmark	
17.3 Blocks, Randomization, Effects, Repetition & Replication	\checkmark	\checkmark		\checkmark	\checkmark	
17.4 DOE Plots: Main Effect & Interaction Plots	\checkmark	\checkmark		\checkmark		
17.5 Full Factorial Experiment (Practice to Understand)	\checkmark	\checkmark				
18.0 Multiple Correspondence Analysis (MCA)	\checkmark				\checkmark	



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Improve						
1.0 Generate & Evaluate Ideas (Simulations to Understand)	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
1.1 Brain Storming	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
1.2 SCAMPER	\checkmark	\checkmark				\checkmark
1.3 Benchmarking	\checkmark	\checkmark		\checkmark		\checkmark
1.4 Lean Solutions	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
1.5 TRIZ (Introduction)	\checkmark	\checkmark				
2.0 Selecting Best Solution (Practice to Understand)	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
2.1 Multi-Voting	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
2.2 Pay-off Matrix	\checkmark	\checkmark			\checkmark	\checkmark
2.3 Criteria Matrix	\checkmark	\checkmark			\checkmark	\checkmark
3.0 Error Proofing	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
3.1 Prevention & Detection	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
3.2 Mistake Proofing & Examples	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4.0 Assess Risk Failure Mode and Effect Analysis (FMEA)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
4.1 Process FMEA	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
4.2 Design FMEA	\checkmark		\checkmark	\checkmark		
5.0 Piloting & Implementation	\checkmark	\checkmark				\checkmark
5.1 Pilot Solutions	\checkmark	\checkmark				\checkmark
5.2 Pilot Location	\checkmark	\checkmark				\checkmark
5.3 Pilot Success Criteria	\checkmark	\checkmark				\checkmark
6.0 Implementation	\checkmark	\checkmark				\checkmark
6.1 Plan for Implementation	\checkmark	\checkmark				\checkmark
6.2 Stakeholder Analysis	\checkmark	\checkmark				\checkmark
6.3 Communication Plan	\checkmark	\checkmark				\checkmark
6.4 Implementation	\checkmark	\checkmark				\checkmark



Торіс	LEAN6SIGMAPRO	TUV SUD	IASSC	ASQ	EXEMPLAR GLOBAL	КРМС
Control						
1.0 What is Process Control?	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
2.0 Different Types of Process Controls	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
3.0 Response Plan & Reaction Plan	\checkmark	\checkmark	\checkmark			\checkmark
3.1 Data Collection for SPC	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark
4.0 Statistical Process Control (Practice to Understand)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4.1 Monitoring, Controlling of Process Performance	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4.2 Identify & Select Critical Process Parameters	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4.3 Subgrouping & Rational Subgrouping	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4.4 SPC-Continuous Data (I-MR, X bar R, X bar S, Cu Sum, EWMA, Median)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4.5 SPC–Discrete Data (C, U, P, NP charts)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
5.0 Control Plan	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
6.0 Visual Control	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.0 Sustain Improvements	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.1 Lesson Learnt	\checkmark	\checkmark				\checkmark
7.2 Documentation	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.3 Trainings	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
7.4 Ongoing Evaluation	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
8.0 Benefit Computation	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
9.0 Project Closure	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
10.0 Celebration	\checkmark	\checkmark				\checkmark