Lean Green Belt Training

DAY 3 and 4 TRAINING				
Before DMAIC (1.5 Hour)	DEFINE (1 Hour)	Data Collection (1.5 hour)	Basic Statistics (1.5 Hour)	MEASURE (2 Hour)
Re-cap of Lean Yellow Belt ❑ List of Problems and Processes brought by Trainees, ❑ Share case studies that will be used in 2 days, <u>Lean Six Sigma</u> ❑ House of Toyota, ➢ Overview of Lean 8 Waste, ➢ Theory of Constraints, ➢ Examples of Constraints, Exercise - Trainees share their Constraints as a group, ❑ Overview of Six Sigma, ➢ Explaining Standard Deviation, ➢ Sigma levels and DPMO, ➢ Taguchi Loss of Function, Exercise – Learn through a piratical example and calculate Loss, <u>Before Applying DMAIC Principle</u> ❑ Strategic Planning - Embedding Lean in Organization and finding opportunities, ❑ Project Selection, ❑ Complex Project Charter, Exercise – Group reviews their own Individual Project Charter, ❑ Roles and Responsibilities of different stakeholders, <u>Empty Template / Exercise Book</u> ❑ Explaining Empty Project Certification Template, ❑ Leading a Large and Complex Lean Event – To Improve a Process or a Problem.	❑ Review Complex Project Charter, ❑ Lean Project Management –GANTT Chart to lead a complex project, Exercise – Trainees build their own Project GANTT Chart ❑ **SIPOC – Already covered,** ❑ Kano Analysis, ❑ Quality Function Deployment. ❑ Voice of the Customer, ➢ Critical to Quality, ➢ Critical to Delivery, ➢ Critical to Cost, Exercise- Critical to Quality Exercise for your process or problem. **DEFINE GATE REVIEW**	❑ Population, Sample & Types, ❑ Data collection and different methods of data collection, ❑ Type of Check Sheets- ➢ Concentration Diagram Check sheets, ➢ Frequency plot check sheet, ➢ Traveler Sheets, ➢ **History data (Defects and Cause)Sheet**, ➢ Time and Study Check Sheet, Exercise – Watch a video and learn to do Time and Motion Study, ❑ Capacity Study of Individuals, teams and equipment, Exercise – Review a case study and learn to do capacity study, ❑ Stratified data, meaning and examples Exercise – Team to learn by doing example.	❑ Collecting, summarizing and analyzing data in Microsoft Excel, Exercise - Utilize practical examples to analyze large data in Excel (Summarizing large data bases), ❑ DPO & DPMO, ❑ Data types (Continuous and Attribute), ❑ Central Tendency (Min, Max, Mean, Median, Mode, Percentile and Standard Deviation) Exercise – Use Microsoft Excel to do basic statistics ❑ Variation in Data, ❑ Normal Distribution,	❑ Determining Input and Outputs to the process, ❑ Understanding, $Y=f(x)$, Exercise – Complete $Y=f(x)$ exercise for your own problem or process improvement, ❑ **Value Stream Mapping – Already covered,** Exercise – Read through a case study and draw a detailed Value Stream Map, ❑ Data Collection Planning - How and what data to measure & collect, Exercise – Create a detailed Data Collection Plan for your process or project, ❑ Performance metrics- Leading, Lagging and Process, Exercise – Trainees find their leading, lagging and process KPIs, ❑ Bench marking, ❑ Assessing capability and performance of the process, ❑ Baselining key performance measures data (Before Process Improvement), ❑ Start Monitoring. **MEASURE GATE REVIEW**