INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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LEAN SIX SIGMA GREEN BELT TRAINING

1. Introduction to Lean Six Sigma

- History and evolution of Lean and Six Sigma
- Key concepts and principles of Lean and Six Sigma
- Benefits of implementing Lean Six Sigma

2. Lean Six Sigma Fundamentals

- Overview of Lean methodologies (5S, Kaizen, Value Stream Mapping)
- Overview of Six Sigma methodologies (DMAIC, DMADV)
- Roles and responsibilities in Lean Six Sigma (Yellow Belt, Green Belt, Black Belt, Master Black Belt)

3. Define Phase

- Identifying improvement opportunities
- Defining project goals and scope
- Voice of the Customer (VoC)
- Critical to Quality (CTQ) characteristics
- Project charter development
- Stakeholder analysis

4. Measure Phase

- Process mapping and flowcharting
- Types of data (continuous and discrete)
- Measurement system analysis (MSA)
- Data collection and sampling techniques
- Descriptive statistics
- Basic tools for data analysis (Pareto charts, histograms, run 1charts)

5. Analyze Phase

- Root cause analysis (Fishbone diagram, 5 Whys)
- Value stream mapping
- Process analysis and identifying waste (TIMWOOD)
- Hypothesis testing basics
- Statistical analysis (correlation, regression)
- Failure Mode and Effects Analysis (FMEA)

6. Improve Phase

- Generating improvement ideas (brainstorming, mind mapping)
- Lean tools for improvement (5S, Kanban, SMED, Poka-Yoke)
- Design of Experiments (DOE) basics
- Solution selection and prioritization
- Piloting solutions
- Implementation planning

7. Control Phase

- Standardization and documentation of new processes
- Control plans and charts (SPC charts)
- Monitoring and response plans
- Sustaining improvements
- Project closure and lessons learned
- Transitioning to the process owner

8. Lean Six Sigma Tools and Techniques

- Detailed exploration of Lean tools (JIT, Jidoka, Andon, Heijunka)
- Detailed exploration of Six Sigma tools (SIPOC, CTQ Tree, Gage R&R)
- Introduction to Minitab or other statistical software

9. Soft Skills for Green Belts

- Team management and leadership skills
- Change management principles
- Communication and presentation skills
- Conflict resolution
- Time management

ADVANCE TOPICS ;-

1 Introduction to Advanced Lean Six Sigma

- Recap of Lean Six Sigma principles and methodologies
- Importance of advanced techniques in complex projects
- Integration of Lean and Six Sigma for strategic improvement

2. Advanced Define Phase

- Advanced project selection techniques
- Project scoping and boundary setting
- Detailed project charters
- In-depth stakeholder analysis
- Prioritizing CTQs using advanced tools

3. **Advanced Measure Phase**

- Advanced process mapping (Swimlane Diagrams, Value Stream Mapping)
- Comprehensive Measurement System Analysis (Nested Gage R&R, Attribute Agreement Analysis)
- Advanced data collection planning and strategies
- Stratification and segmentation of data
- Using statistical software for data analysis

4. **Advanced Analyze Phase**

- Advanced root cause analysis (Multivariate analysis, Design of Experiments)
- Identifying process inefficiencies and non-value-added activities
- Detailed hypothesis testing (ANOVA, Chi-square tests)
- Regression analysis (Multiple Linear Regression, Logistic Regression)
- Advanced Failure Mode and Effects Analysis (FMEA)
- Advanced statistical tools and software (Minitab, JMP)

5. **Advanced Improve Phase**

- Advanced techniques for generating and evaluating improvement ideas
- Design of Experiments (DOE) for process optimization
- Lean tools for rapid improvement (Kaizen Blitz, Value Stream Mapping workshops)
- Risk assessment and mitigation strategies
- Piloting solutions and analyzing pilot data

6. **Advanced Control Phase**

- Advanced statistical process control (SPC) charts (CUSUM, EWMA)
- Developing and implementing comprehensive control plans
- Mistake-proofing techniques (Poka-Yoke)
- Sustaining improvements with Lean management systems
- Conducting control and verification audits
- Transition planning to process owners

7. Advanced Lean Tools and Techniques

- In-depth exploration of advanced Lean tools (Heijunka, Hoshin Kanri, Total Productive Maintenance)
- Advanced Kanban systems
- Integrating Lean tools with Six Sigma projects
- Lean Accounting principles

8. Advanced Soft Skills and Leadership

- Advanced team dynamics and leadership skills
- Effective change management strategies

- Advanced communication and negotiation skills
- Conflict management and resolution techniques
- Influencing and engaging stakeholders