



INNOVATION BLACK BELT™ COURSE CURRICULUM

TOPIC AND ITS CONTENT	TIME
I. Introduction	0.5 hour
II Addressing Known Challenges (Solution of Complex Problems) – 2 <ol style="list-style-type: none"> 1. Dealing with Conflicts <ul style="list-style-type: none"> • Origins of the Conflicts • External and Internal Systems Conflicts • 6 Generic Strategies of Dealing with a Conflict 2. The Algorithm for Conflict Elimination (ACE-2006) 	7.5 hours
III. Innovation and the Complex Projects (Applications of GTI) <ol style="list-style-type: none"> 1. Quality <ul style="list-style-type: none"> • Investigative problem solving 2. GTI and DFSS 3. Examples and Exercises 4. Hands-On Workshop: Carrying Out an Analysis for a System 	4 hours
IV. Failure Prevention <ol style="list-style-type: none"> 1. Introduction: Why Is FMEA Not Enough? 2. GTI Failure Prevention Methodology <ul style="list-style-type: none"> • Failure • Classification of Root Causes • 16 Different Failure Modes • Control • Failure-Free System 3. Failure Prevention Step-by-Step <ul style="list-style-type: none"> • Procedures; Their Content and Sequence • Illustrative Analysis 4. Workshop: Carrying Out the Failure Prevention Analysis for a System 	8 hours
V. Competitive Patent Analysis <ol style="list-style-type: none"> 1. Introduction to the US Patent System 2. Patent as a Solution to a Problem 3. GTI-based Patent Analysis Methodology <ul style="list-style-type: none"> • Strengths and Weaknesses of a Patent • Step-by-Step Patent Analysis Methodology <ul style="list-style-type: none"> ▪ Protection Against Circumvention ▪ Design-Around Analysis • Exercises 4. Workshop: Carrying Out an Analysis for a System 	8 hours
VI. Team Leadership	3.5 hours
VI. Conclusion; Q & A	0.5 hour
Total Time	32 hours