



International Academic Institute

European Union

SIX SIGMA MASTER BLACK BELT CERTIFICATION

Course Objectives

- Simulating Process Capabilities which is optimized to Strategic Objectives
- Simulation HR accuracy and Capabilities which satisfy Process requirements
- Optimize routs with multiple activities
- Optimization of HR complimentary performance Matrix
- Defining Six Sigma Specifications for Tasks and routs
- Simulating best HR correlated Performance
- Real-Time Process Improvement
- Real-Time HR Assessments
- Forecasting Process and HR Performance
- Managing Six Sigma Working organization
- Six Sigma Project

Who should attend?

This course is designed for individuals from diverse organizational functions—operations, quality, logistics, finance, production, engineering, and other staff functions seeking to bring significant business results to their organizations. Participants are traditionally well versed in technical aspects of their jobs, are team leaders, and are effective project facilitators.

Certification

Participants will get accredited diploma from the International Academic Institute **in Six Sigma Black Belt**

Contact

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Course Outlines

Module No.	Module Name	Contents
1	Enterprise Strategic Objectives and Projects	<ul style="list-style-type: none"> • Defining areas of improvement • Determining needs and requirements • Principles and Thinking Process • Enterprise integrated Solution • Defining Performance Metrics • Determining Measurable Strategic Objectives • Identifying Projects correlated to Strategic Objectives • Defining MIS Management Tools • Case Examples • Individual Project • Individual Project Examination: Present Your Project in the Class (1 hour)
2	Excellence Plus SIX SIGMA Diagnoses Tool	<ul style="list-style-type: none"> • Defining Task Specifications • Review of DOE Methods • Simulating Tasks Capabilities • Review of Simulation Results • Define HR and working on the Tasks • Calculate HR Capabilities and find Best Match with Task Capability • Optimization of Tasks and HR Matrices • Steepest Ascent Method • Multiple Response • Advanced Capability Analysis • Capability Analysis for Weibull data • Capability Analysis for Poisson data • Capability Analysis for Binomial data • Advance Regression Analysis • Stepwise Method • Logistic Regression • Forecasting Techniques • Time Series Analysis • Normal Distribution • Moving Average Methods • Exponential Smoothing Methods • Autocorrelation • Seasonal Analysis • Simulation and Exercise
3	Analysis and Diagnoses	<ul style="list-style-type: none"> • Analyze Task Performance and compare with other Tasks • HR Comparison Acting on certain Task and Track Determining Performance Level • Determining Task and Track Behavior • Determining HR and Groups Behavior • Calculating Loyalty • Analyzing the Gaps • Re-Plan Human Resources
4	Process & HR efficiency & Effectiveness	<ul style="list-style-type: none"> • Determining Task efficiency • Calculating HR efficiency and effectiveness • Self-Assessment and Monitoring • Tasks and HR Assessments • Departmental Assessments • Enterprise Assessment

5	<p style="text-align: center;">Six Sigma Management Leader</p>	<ul style="list-style-type: none"> • Principles of Six Sigma Management • Six Sigma Leadership and Change Management • The Role of MBB • Bringing Six Sigma to Achieve Company Objectives • Project Selection • Personnel Selection • Award and Recognition • Six Sigma Deployment Plan • Project Management and Evaluation • Aligning Six Sigma with Business Excellence Model • Aligning Six Sigma to Other Management Systems • Introduction to Six Sigma Management Standard
6	<p style="text-align: center;">Design for Six Sigma</p>	<ul style="list-style-type: none"> • Six Sigma Solution and Roadmap for Product Life Cycle • Introduction to EpModel • Main Technical Tools for EpModel • Quality Function Deployment (QFD) • System Design • Applicable Reliability Engineering Tools • Robust Design • Using EpModel to Monitor and diagnose Activities • EpModel in Analyzing Diagnosing HR Activities Workshop-Like Exercises on the Class (Conducted in the Related Parts) • Exam • Thesis