

Felipe Josué Quiroz González

Has Successfully Achieved

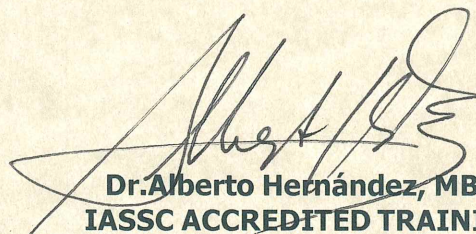
LEAN SIX SIGMA MASTER BLACK BELT CERTIFICATION

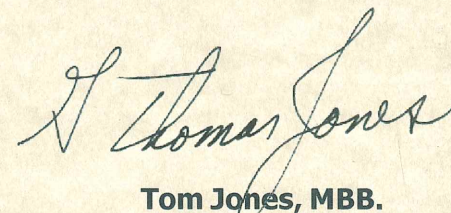
In Accordance with Lean Methods Group's
Lean Six Sigma Master Black Belt Certification Requirements

This recognizes that you have demonstrated your *LEADERSHIP QUALITIES, TECHNICAL SKILLS* and *APPLICATION OF THE LEAN SIX SIGMA METHODOLOGY*

July 12, 2018




Dr. Alberto Hernández, MBB.
IASSC ACCREDITED TRAINING
ASSOCIATE®


Tom Jones, MBB.
Vicepresident, LMG





Certificado 65

Monterrey, Nuevo León a 12 de julio de 2018

Estimado Felipe Josué Quiroz González,

Por medio de la presente me permito darte la más cordial felicitación por tu dedicación y constancia demostrada durante el **Programa de Certificación Internacional Lean Seis Sigma**, el cual se ve reflejado en el cumplimiento de los requisitos necesarios para certificarte como **Master Black Belt**.

De parte de todo el equipo del área de Lean Seis Sigma del Tecnológico de Monterrey, te extendemos la más sincera felicitación, y deseamos que esta experiencia te sea de gran utilidad en un futuro tanto en el plano profesional como en el personal. Asimismo, esperamos que tu participación en nuestro programa haya resultado útil para la empresa donde laboras.

Quedamos a tu disposición para servirte y apoyarte en futuras ocasiones.

Atentamente,



Dr. Alberto Hernández Luna, MBB
IASSC ACCREDITED TRAINING ASSOCIATE®



This letter will serve to confirm that **Felipe Josué Quiroz González** has successfully completed 160 hours of Lean Six Sigma Master Black Belt training curriculum.

The course dates for Master Black Belt training were:

- Train the Trainer, August 2017
- Transactional Tool Master, June 2018
- Innovation & TRIZ, April 2018
- Design for Six Sigma, May 2018

Innovation & TRIZ

- Tools and Techniques for Innovation and Design
- Sustainable and Predictable Innovation for Organic Growth
- Roadmap and Techniques for the Innovation Process
- Jobs to be Done
- Expectations of the Result
- Value Quotient and Ideal Innovation
- Brain Writing 6-3-5
- Random Stimuli
- Six Ways of Thinking
- Structured Function and Morphological Matrix
- Evaluation of Designs: Pugh Matrix
- Defining and Selection of Problems
- Ideality and Final Ideal Result
- Means and its use
- Rethinking of Projects using RFI-CPR and CT/CF
- Basics of Inventiveness
- Definition of Technical Contradiction Matrix
- Definition of Physical Contradictions
- Relationship between Separation and Inventiveness Principles

Design for Six Sigma

- Phases and Deliverables for DFSS
- Selection of Concepts
- Critical Characteristics for Quality
- Scorecard Design

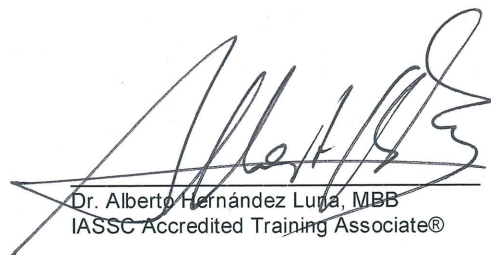
- Project's Risk Analysis
- Introduction to Reliability
- Experiments for Robustness
- Tolerance Analysis
- DMADV
- Kano
- Voice of Client and Deployment of Quality
- Lean

Transactional Tool Master

- Evaluating Processes with Categorical Data
- Probability for Decision Making
- Multiple Regression
- Logistic Regression
- Introduction to ARIMA Models
- Introduction to Transactional Surveys
- Queuing Theory
- Control Graphs
- Frequency Patterns in Cycle Time

Train the Trainer

- Creating Kick-Offs
- Basic Learning Process
- Leadership Plan for Change
- Know Your Audience
- Assessing the Needs and Progress of Participants
- Organizing Ideas and Structuring Presentations
- Managing Nervousness
- Styles of Communication
- OARS Discussion Tools
- Dominating Questions
- Managing Objections
- Managing Disruptive Behavior
- Winning Management's Trust



Dr. Alberto Hernández Luján, MBB
IASSC Accredited Training Associate®