ILSSI Certified Lean Six Sigma Black Belt (including Yellow Belt and Green Belt curriculum)

Yellow Belt level

o L001 Introduction to Lean

o S001 Introduction to Six Sigma

o S001-1 Introduction to DMAIC

o L002-1 Writing Effective Problem Statements

o L002-2 Introduction to Kaizen

o L002-3 Using the A3 Report for Rapid Improvement

o L002-4 SIPOC Mapping

o L003-1 Understanding and Implementing 5S/6S

o L003-2 Implementing and Facilitating Lean "Huddles"

o L003-3 Visual Workplace

o L003-4 Standard Work

o L004-1 Mapping the Process

o L004-2 Spaghetti Diagrams

Green Belt level

o L004-3 Gemba (Waste) Walks

o S002-1 Failure Modes and Effects Analysis

o S002-2 Error-Proofing/Mistake-proofing

o S003 Controlling the Process

o S004 Assessing Process Capability

o L005-1 Constructing Project Charters

o L005-2 Managing Change

o L006-1 Brainstorming, Affinity Diagrams & Team Voting

o L006-2 Cause & Effect Diagrams & the Five Whys

o L006-3 Pareto Charts and the 80/20 Rule

o L007 Value Stream Mapping

o L008 Kanban and Material Management

o L009-1 Work levelling/Load Balancing

o L009-2 Work Cell Design & Improved Office/Facility Layout

o L010 Rapid Changeover Techniques/SMED

o L011 Total Productive Maintenance (TPM)

o L012 Process Control Plans and Control Charts

o S005 Introduction to Basic Statistics

o S006-1 The Normal Distribution

o S006-2 The Standard Normal (Z) Distribution

o S006-3 Testing for Normality

o S007-1 Graphical Analysis - The Histogram

o S007-2 Graphical Analysis - The Boxplot

o S007-3 Graphical Analysis - The Scatter Plot

o L013 Lean Deployment Strategy and Methods

o L014 Lean and Green: The Environmental Benefits

o S008 Central Limit Theorem and Confidence Intervals

o S009 Introduction to Hypothesis Testing

o S010 Data Collection and Sampling

o S011 MSA - Gauge R & R Studies

o S012 MSA - Attribute Agreement Analysis

o S013-1 Process Capability Measures - Discrete

o S013-2 Process Capability Measures - Continuous

o S014 Correlation and Simple Linear Regression

Black Belt level

o **S015 Discrete & Continuous Probability Distributions**

o **S016 Hypothesis Testing - Mean and Median**

 o **S017 Test for Equal Variance**

o **S018 Analysis of Variance (ANOVA) and ANOM**

o **S019-1 Proportion Testing**

o **S019-2 Chi-Square Analysis**

o **S020-1 Voice of the Customer - Kano Analysis**

o **S020-2 Voice of the Customer - Net Promoter Score**

o **S021 Use of Data Transformation in Analysis**

o **S022 Introduction to Logistic Regression**

o **S023 Introduction to General Linear Models (GLM)**

o **S024 Introduction to Reliability Life Data Analysis**

o **S025 Introduction to Design of Experiments (DOE)**

o **S028 Introduction to Design for Six Sigma**