	A1 - Understanding Six Sigma 1.0	
Define	A2 - Fundamentals of Six Sigma 1.0	
	A3 - Project Selection 1.0	
	A4 - Lean Enterprise 1.0	
	A5 - Define Wrap Up 1.0	
	B1 - Intro to Measure 1.0	
	B2 - Process Mapping 1.0	
a.	B3 - Cause and Effect 1.0	
Measure	B4 - FMEA 1.0	
Σ	B5 - Measurement System Analysis 1.0	
	B6 - Capability Analysis 1.0	
	B7 - Measure Wrap Up 1.0	
	C1 - Into to Analyze 1.0	
	C2 - Classes and Causes 1.0	
Analyze	C3 - Mulit Vari and Other Graphs 1.0	
	C4 - Inference 1.0	
	C5 - Hypothesis Testing 1.0	
	C6 - Hypothesis Testing Normal Data Part 1 1.0	
	C7 - Hypothesis Testing Normal Data Part 2 1.0	
	C8 - Nonnormal Part 1 1.0	
	C9 - Nonnormal Data Part 2 1.0	
	C10 - Analyze Wrap Up 1.0	
	D1 - Intro to Improve 1.0	
	D2 - Simple Linear Regression 1.0	
ove	D3 - Multiple Regression 1.0	
mprove	D4 - 2 ^K Experiments 1.0	
<u>=</u>	D5 - Fractional Factorials 1.0	
	D6 - DOE Extras 1.0	
	D7 - Improve Wrap Up 1.0	
Control	E1 - Intro to Control 1.0	
	E2 - Solution Selection 1.0	
	E3 - Control Methods 1.0	
	E4 - Return to Lean 1.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	E5 -SPC 1.0	
	E6 - Control Plan 1.0	
	E7 - Project Wrap Up 1.0	

Course Modules		Black Belt	Green Belt	Yellow Belt	Minitab Version Runtime*		SigmaXL Version Runtime*			
					Hours	Minutes	Seconds	Hours	Minutes	Seconds
Define	A1 - Understanding Six Sigma 1.0				1	36	23	1	36	23
	A2 - Fundamentals of Six Sigma 1.0				0	58	2	0	58	2
	A3 - Project Selection 1.0				0	59	25	1	0	52
	A4 - Lean Enterprise 1.0				0	38	10	0	38	10
	A5 - Define Wrap Up 1.0				0	14	26	0	14	26
	B1 - Intro to Measure 1.0				0	6	26	0	6	26
	B2 - Process Mapping 1.0				0	49	6	0	51	44
Measure	B3 - Cause and Effect 1.0				0	26	46	0	30	3
sasi	B4 - FMEA 1.0				0	30	6	0	30	45
ğ	B5 - Measurement System Analysis 1.0				1	26	1	1	39	3
	B6 - Capability Analysis 1.0				1	11	46	1	7	48
	B7 - Measure Wrap Up 1.0				0	8	15	0	8	15
	C1 - Into to Analyze 1.0				0	3	59	0	3	59
	C2 - Classes and Causes 1.0				0	35	11	0	36	36
Analyze	C3 - Mulit Vari and Other Graphs 1.0				0	51	21	0	53	55
	C4 - Inference 1.0				0	43	18	0	43	17
	C5 - Hypothesis Testing 1.0				0	30	42	0	32	14
	C6 - Hypothesis Testing Normal Data Part 1 1.0				0	59	19	1	10	12
	C7 - Hypothesis Testing Normal Data Part 2 1.0				0	56	31	1	7	47
	C8 - Nonnormal Part 1 1.0				0	51	52	1	2	31
	C9 - Nonnormal Data Part 2 1.0				0	35	51	0	35	31
	C10 - Analyze Wrap Up 1.0			<u>/////////////////////////////////////</u>	0	7	31	0	7	31
Improve	D1 - Intro to Improve 1.0				0	2	45	0	2	45
	D2 - Simple Linear Regression 1.0				0	39	16	0	36	21
	D3 - Multiple Regression 1.0				1	31	51	1	27	55
	D4 - 2^K Experiments 1.0				1	1	58	1	1	41
	D5 - Fractional Factorials 1.0				0	53	22	0	57	10
	D6 - DOE Extras 1.0				1	10	25	1	16	18
	D7 - Improve Wrap Up 1.0			<u>/////////////////////////////////////</u>	0	7	58	0	7	58
		_								
Control	E1 - Intro to Control 1.0				0	2	42	0	2	42
	E2 - Solution Selection 1.0				0	14	6	0	14	6
	E3 - Control Methods 1.0				0	18	6	0	18	6
	E4 - Return to Lean 1.0				0	34	11	0	34	11
	E5 -SPC 1.0				1	29	4	1	32	28
	E6 - Control Plan 1.0				0	29	43	0	29	43
	E7 - Project Wrap Up 1.0				0	9	43	0	9	38

^{* &}quot;Instructional Run time" or Video time refers to the total length of a video, while "study time" represents the amount of time spent actively learning and processing information from that video, which can be longer than the video's runtime if the viewer pauses, takes notes, conducts exercises and analysis and reviews sections; essentially, study time encompasses the full engagement with the video content beyond just passively watching it.

Black Belt Approx. Instructional Runtime 24 Hrs, Study Time 160 Hrs. (+/-20)

Green Belt Approx. Instructional Runtime 20 Hrs, Study Time 100 Hrs. (+/-20)

Yellow Belt Approx. Instructional Runtime 11 Hrs, Study Time 40 Hrs. (+/-10)

IASSC Body of Knowledge (BoK)

Black Belt	Green Belt	Yellow Belt
1.0 Define Phase	1.0 Define Phase	1.0 Define Phase
1.1 The Basics of Six Sigma	1.1 The Basics of Six Sigma	1.1 The Basics of Six Sigma
1.1.1 Meanings of Six Sigma	1.1.1 Meanings of Six Sigma	1.1.1 Meanings of Six Sigma
1.1.2 General History of Six Sigma & Continuous Improvement	1.1.2 General History of Six Sigma & Continuous Improvement	1.1.2 General History of Six Sigma & Continuous Improvement
1.1.3 Deliverables of a Lean Six Sigma Project 1.1.4 The Problem Solving Strategy Y = f(x)	1.1.3 Deliverables of a Lean Six Sigma Project 1.1.4 The Problem Solving Strategy Y = f(x)	1.1.3 Deliverables of a Lean Six Sigma Project 1.1.4 The Problem Solving Strategy Y = f(x)
1.1.5 Voice of the Customer, Business and Employee	1.1.5 Voice of the Customer, Business and Employee	1.1.5 Voice of the Customer, Business and Employee
1.1.6 Six Sigma Roles & Responsibilities	1.1.6 Six Sigma Roles & Responsibilities	1.1.6 Six Sigma Roles & Responsibilities
1.2 The Fundamentals of Six Sigma	1.2 The Fundamentals of Six Sigma	1.2 The Fundamentals of Six Sigma
1.2.1 Defining a Process 1.2.2 Critical to Quality Characteristics (CTQ's)	1.2.1 Defining a Process 1.2.2 Critical to Quality Characteristics (CTQ's)	1.2.1 Defining a Process 1.2.2 Critical to Quality Characteristics (CTQ's)
1.2.3 Cost of Poor Quality (COPQ)	1.2.3 Cost of Poor Quality (COPQ)	1.2.3 Cost of Poor Quality (COPQ)
1.2.4 Pareto Analysis (80:20 rule)	1.2.4 Pareto Analysis (80:20 rule)	1.2.4 Pareto Analysis (80:20 rule)
1.2.5 Basic Six Sigma Metrics	1.2.5 Basic Six Sigma Metrics	1.2.5 Basic Six Sigma Metrics
a. including DPU, DPMO, FTY, RTY Cycle Time; deriving these metrics	a. including DPU, DPMO, FTY, RTY Cycle Time, deriving these metrics and these metrics	a. including DPU, DPMO, FTY, RTY Cycle Time
1.3 Selecting Lean Six Sigma Projects	1.3 Selecting Lean Six Sigma Projects	1.3 Selecting Lean Six Sigma Projects
1.3.1 Building a Business Case & Project Charter 1.3.2 Developing Project Metrics	1.3.1 Building a Business Case & Project Charter 1.3.2 Developing Project Metrics	1.3.1 Building a Business Case & Project Charter 1.3.2 Developing Project Metrics
1.3.3 Financial Evaluation & Benefits Capture	1.3.3 Financial Evaluation & Benefits Capture	1.3.3 Financial Evaluation & Benefits Capture
1.4 The Lean Enterprise	1.4 The Lean Enterprise	1.4 The Lean Enterprise
1.4.1 Understanding Lean	1.4.1 Understanding Lean	1.4.1 Understanding Lean
1.4.2 The History of Lean 1.4.3 Lean & Six Sigma	1.4.2 The History of Lean 1.4.3 Lean & Six Sigma	1.4.2 The History of Lean 1.4.3 Lean & Six Sigma
1.4.4 The Seven Elements of Waste	1.4.4 The Seven Elements of Waste	1.4.4 The Seven Elements of Waste
		a. Overproduction, Correction, Inventory, Motion, Overprocessing, Conveyance,
 a. Overproduction, Correction, Inventory, Motion, Overprocessing, Conveyance, Waiting. 1.4.5 SS 	1.4.5 5S	1.4.5 5S
a. Sort, Straighten, Shine, Standardize, Self-Discipline	a. Sort, Straighten, Shine, Standardize, Self-Discipline	a. Sort, Straighten, Shine, Standardize, Self-Discipline
2.0 Measure Phase	2.0 Measure Phase	2.0 Measure Phase
2.1 Process Definition 2.1.1 Cause & Effect / Fishbone Diagrams	2.1 Process Definition 2.1.1 Cause & Effect / Fishbone Diagrams	2.1 Process Definition 2.1.1 Cause & Effect / Fishbone Diagrams
2.1.2 Process Mapping, SIPOC, Value Stream Map	2.1.2 Process Mapping, SIPOC, Value Stream Map	2.1.2 Process Mapping, SIPOC, Value Stream Map
2.1.3 X-Y Diagram	2.1.3 X-Y Diagram	2.1.3 X-Y Diagram
2.1.4 Failure Modes & Effects Analysis (FMEA)	2.1.4 Failure Modes & Effects Analysis (FMEA)	2.1.4 Failure Modes & Effects Analysis (FMEA)
2.2 Six Sigma Statistics	2.2 Six Sigma Statistics	2.2 Six Sigma Statistics
2.2.1 Basic Statistics 2.2.2 Descriptive Statistics	2.2.1 Basic Statistics 2.2.2 Descriptive Statistics	2.2.1 Basic Statistics 2.2.2 Descriptive Statistics
2.2.3 Normal Distributions & Normality	2.2.3 Normal Distributions & Normality	2.2.3 Normal Distributions & Normality
2.2.4 Graphical Analysis	2.2.4 Graphical Analysis	2.2.4 Graphical Analysis
2.3 Measurement System Analysis	2.3 Measurement System Analysis	2.3 Measurement System Analysis
2.3.1 Precision & Accuracy	2.3.1 Precision & Accuracy	2.3.1 Precision & Accuracy
2.3.2 Bias, Linearity & Stability 2.3.3 Gage Repeatability & Reproducibility	2.3.2 Bias, Linearity & Stability 2.3.3 Gage Repeatability & Reproducibility	2.3.2 Bias, Linearity & Stability 2.3.3 Gage Repeatability & Reproducibility
2.3.4 Variable & Attribute MSA	2.3.4 Variable & Attribute MSA	2.3.4 Variable & Attribute MSA
2.4 Process Capability	2.4 Process Capability	2.4 Process Capability
2.4.1 Capability Analysis	2.4.1 Capability Analysis	2.4.1 Capability Analysis
2.4.2 Concept of Stability 2.4.3 Attribute & Discrete Capability	2.4.2 Concept of Stability 2.4.3 Attribute & Discrete Capability	2.4.2 Concept of Stability 2.4.3 Attribute & Discrete Capability
2.4.4 Monitoring Techniques	2.4.4 Monitoring Techniques	2.4.4 Monitoring Techniques
3.0 Analyze Phase	3.0 Analyze Phase	-
3.1 Patterns of Variation	3.1 Patterns of Variation	
3.1.1 Multi-Vari Analysis 3.1.2 Classes of Distributions	3.1.1 Multi-Vari Analysis 3.1.2 Classes of Distributions	•
3.2 Inferential Statistics	3.2 Inferential Statistics	
3.2.1 Understanding Inference	3.2.1 Understanding Inference	-
3.2.2 Sampling Techniques & Uses	3.2.2 Sampling Techniques & Uses	
3.2.3 Central Limit Theorem	3.2.3 Central Limit Theorem	•
3.3 Hypothesis Testing	3.3 Hypothesis Testing	
3.3.1 General Concepts & Goals of Hypothesis Testing 3.3.2 Significance; Practical vs. Statistical	3.3.1 General Concepts & Goals of Hypothesis Testing 3.3.2 Significance; Practical vs. Statistical	
3.3.3 Risk; Alpha & Beta	3.3.3 Risk; Alpha & Beta	
3.3.4 Types of Hypothesis Test	3.3.4 Types of Hypothesis Test	
3.4 Hypothesis Testing with Normal Data	3.4 Hypothesis Testing with Normal Data	-
3.4.1 1 & 2 sample t-tests 3.4.2 1 sample variance	3.4.1 1 & 2 sample t-tests 3.4.2 1 sample variance	•
3.4.2 1 sample variance 3.4.3 One Way ANOVA	3.4.2 I sample variance 3.4.3 One Way ANOVA	• •
Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results.	Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results.	
3.5 Hypothesis Testing with Non-Normal Data 3.5.1 Mann-Whitney	3.5 Hypothesis Testing with Non-Normal Data 3.5.1 Mann-Whitney	- -
3.5.2 Kruskal-Wallis	3.5.2 Kruskal-Wallis	
3.5.4 Friedman	3.5.3 Mood's Median 3.5.4 Friedman	-
3.5.5 1 Sample Sign	3.5.5 1 Sample Sign	-
3.5.6 1 Sample Wilcoxon	3.5.6 1 Sample Wilcoxon	·
3.5.7 One and Two Sample Proportion 3.5.8 Chi-Squared (Contingency Tables)	3.5.7 One and Two Sample Proportion	
a. Including Tests of Equal Variance, Normality Testing and Sample Size calculation,	3.5.8 Chi-Squared (Contingency Tables)	
	 Schi-Squared (Contingency Tables) Including Tests of Equal Variance, Normality Testing and Sample Size calculation, 	
performing tests and interpreting results.		
4.0 Improve Phase	a. Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results. 4.0 Improve Phase	
	a. Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results.	
4.0 Improve Phase 4.1 Simple Linear Regression 4.1.1 Correlation 4.1.2 Regression Equations	a. Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results. 4.0 Improve Phase 4.1 Simple Linear Regression 4.1.1 Correlation 4.1.2 Regression Equations	• • • •
4.0 Improve Phase 4.1 Simple Linear Regression 4.1.1 Correlation	a. Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results. 4.0 Improve Phase 4.1 Simple Linear Regression 4.1.1 Correlation	· · · · · · · · · · · · · · · · · · ·
4.0 Improve Phase 4.1 Simple Linear Regression 4.1.1 Correlation 4.1.2 Regression Equations 4.1.3 Residuals Analysis 4.2 Multiple Regression Analysis	a. Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results. 4.0 Improve Phase 4.1 Simple Linear Regression 4.1.1 Correlation 4.1.2 Regression Equations 4.1.3 Residuals Analysis 4.2 Multiple Regression Analysis	· · · · · · · · · · · · ·
4.0 Improve Phase 4.1 Simple Linear Regression 4.1.1 Correlation 4.1.2 Regression Equations 4.1.3 Residuals Analysis	a. Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results. 4.0 Improve Phase 4.1 Simple Linear Regression 4.1.1 Correlation 4.1.2 Regression Equations 4.1.3 Residuals Analysis	· · · · · · · · · · · · · · · · · · ·
4.0 Improve Phase 4.1 Simple Linear Regression 4.1.1 Correlation 4.1.2 Regression Equations 4.1.3 Residuals Analysis 4.2 Multiple Regression Analysis 4.2.1 Non-Linear Regression 4.2.2 Multiple Linear Regression 4.2.3 Confidence & Prediction Intervals	a. Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results. 4.0 Improve Phase 4.1 Simple Linear Regression 4.1.1 Correlation 4.1.2 Regression Equations 4.1.3 Residuals Analysis 4.2 Multiple Regression Analysis 4.2.1 Non- Linear Regression 4.2.2 Multiple Linear Regression 4.2.2 Multiple Linear Regression 4.2.3 Confidence & Prediction Intervals	- - - - - - - - -
4.0 Improve Phase 4.1 Simple Linear Regression 4.1.1 Correlation 4.1.2 Regression Equations 4.1.3 Residuals Analysis 4.2 Multiple Regression Analysis 4.2.1 Nor- Linear Regression 4.2.2 Multiple Linear Regression 4.2.2 Multiple Linear Regression	a. Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results. 4.0 Improve Phase 4.1 Simple Linear Regression 4.1.1 Correlation 4.1.2 Regression Equations 4.1.3 Residuals Analysis 4.2 Multiple Regression Analysis 4.2.1 Non-Linear Regression 4.2.2 Multiple Linear Regression 4.2.2 Multiple Linear Regression	- - - - - - - - - - - -

4.3 Designed Experiments	•	
4.3.1 Experiment Objectives	•	•
4.3.2 Experimental Methods	•	•
4.3.3 Experiment Design Considerations	•	•
4.4 Full Factorial Experiments		
4.4.1 2k Full Factorial Designs		
4.4.2 Linear & Quadratic Mathematical Models		
4.4.3 Balanced & Orthogonal Designs		
4.4.4 Fit, Diagnose Model and Center Points		
, ,		
4.5 Fractional Factorial Experiments		
4.5.1 Designs		
4.5.2 Confounding Effects	•	
4.5.3 Experimental Resolution	•	
5.0 Control Phase	5.0 Control Phase	5.0 Control Phase
5.1 Lean Controls	5.1 Lean Controls	5.1 Lean Controls
5.1.1 Control Methods for 5S	5.1.1 Control Methods for 5S	5.1.1 Control Methods for 5S
5.1.2 Kanban	5.1.2 Kanban	5.1.2 Kanban
5.1.3 Poka-Yoke (Mistake Proofing)	5.1.3 Poka-Yoke (Mistake Proofing)	5.1.3 Poka-Yoke (Mistake Proofing)
	(
5.2 Statistical Process Control (SPC)	5.2 Statistical Process Control (SPC)	
5.2.1 Data Collection for SPC	5.2.1 Data Collection for SPC	
5.2.2 I-MR Chart	5.2.2 I-MR Chart	
5.2.3 Xbar-R Chart	5.2.3 Xbar-R Chart	
5.2.4 U Chart	5.2.4 U Chart	
5.2.5 P Chart	5.2.5 P Chart	
5.2.6 NP Chart	5.2.6 NP Chart	
5.2.7 Xbar-S Chart	5.2.7 Xbar-S Chart	
5.2.8 CuSum Chart	5.2.8 CuSum Chart	
5.2.9 EWMA Chart	5.2.9 EWMA Chart	
5.2.10 Control Methods	5.2.10 Control Chart Anatomy	
5.2.11 Control Chart Anatomy	•	
5.2.12 Subgroups, Impact of Variation, Frequency of Sampling		
5.2.13 Center Line & Control Limit Calculations		
5.3 Six Sigma Control Plans	5.3 Six Sigma Control Plans	5.3 Six Sigma Control Plans
5.3.1 Cost Benefit Analysis	5.3.1 Cost Benefit Analysis	5.3.1 Cost Benefit Analysis
5.3.2 Elements of the Control Plan	5.3.2 Elements of the Control Plan	5.3.2 Elements of the Control Plan
5.3.3 Elements of the Response Plan	5.3.3 Elements of the Response Plan	5.3.3 Elements of the Response Plan