

CLIMBING THE MOUNTAIN



YELLOW BELT COURSEWARE



MINDSET, SKILL SET & TOOL SET

H.C. THEISENS, T. HESP, D. HARBORNE





LSSA Lean (Six Sigma) – Yellow Belt Courseware

Colophon

Title:	LSSA Lean (Six Sigma) – Yellow Belt Courseware
Authors:	H.C. Theisens, T. Hesp, D. Harborne
Publisher:	Van Haren Publishing, 's-Hertogenbosch
ISBN Hard Copy:	978 94 018 0997 9
Edition:	First edition, first print, May, 2023
Design:	Van Haren Publishing, 's-Hertogenbosch
Copyright:	© Van Haren Publishing 2023
	For further information about Van Haren Publishing please e-mail us at: info@vanharen.net or visit our website: www.vanharen.net

No part of this publication may be reproduced in any form by print, photo print, microfilm or any other means without written permission by the publisher.

Although this publication has been composed with much care, neither author, nor editor, nor publisher can accept any liability for damage caused by possible errors and/or incompleteness in this publication.

Publisher about the Courseware

The Courseware was created by experts from the industry who served as the author(s) for this publication. The input for the material is based on existing publications and the experience and expertise of the author(s). The material has been revised by trainers who also have experience working with the material. Close attention was also paid to the key learning points to ensure what needs to be mastered.

The objective of the courseware is to provide maximum support to the trainer and to the student, during his or her training. The material has a modular structure and according to the author(s) has the highest success rate should the student opt for examination. The Courseware is also accredited for this reason, wherever applicable.

In order to satisfy the requirements for accreditation the material must meet certain quality standards. The structure, the use of certain terms, diagrams and references are all part of this accreditation. Additionally, the material must be made available to each student in order to obtain full accreditation. To optimally support the trainer and the participant of the training assignments, practice exams and results are provided with the material.

Direct reference to advised literature is also regularly covered in the sheets so that students can find additional information concerning a particular topic. The decision to leave out notes pages from the Courseware was to encourage students to take notes throughout the material.

Although the courseware is complete, the possibility that the trainer deviates from the structure of the sheets or chooses to not refer to all the sheets or commands does exist. The student always has the possibility to cover these topics and go through them on their own time. It is recommended to follow the structure of the courseware and publications for maximum exam preparation.

The courseware and the recommended literature are the perfect combination to learn and understand the theory.

-- Van Haren Publishing

Other publications by Van Haren Publishing

Van Haren Publishing (VHP) specializes in titles on Best Practices, methods and standards within four domains:

- IT and IT Management
- Architecture (Enterprise and IT)
- Business Management and
- Project Management

Van Haren Publishing is also publishing on behalf of leading organizations and companies: ASLBiSL Foundation, BRMI, CA, Centre Henri Tudor, Gaming Works, IACCM, IAOP, IFDC, Innovation Value Institute, IPMA-NL, ITSqc, NAF, KNVI, PMI-NL, PON, The Open Group, The SOX Institute.

Topics are (per domain):

IT and IT Management	Enterprise Architecture	Project Management
ABC of ICT	ArchiMate [®]	A4-Projectmanagement
ASL*	GEA*	DSDM/Atern
CATS CM®	Novius Architectuur	ICB / NCB
CMMI [®]	Methode	ISO 21500
COBIT [°]	TOGAF®	MINCE [®]
e-CF		M_o_R*
ISO/IEC 20000	Business Management	MSP [∗]
ISO/IEC 27001/27002	BABOK [®] Guide	P3O [®]
ISPL	BiSL® and BiSL® Next	PMBOK® Guide
IT4IT [®]	BRMBOK TM	Praxis®
IT-CMF TM	BTF	PRINCE2 [®]
IT Service CMM	EFQM	
ITIL [®]	eSCM	
MOF	IACCM	
MSF	ISA-95	
SABSA	ISO 9000/9001	
SAF	OPBOK	
SIAM TM	SixSigma	
TRIM	SOX	
VeriSM TM	SqEME [®]	

For the latest information on VHP publications, visit our website: www.vanharen.net.

CONTENT

Self-Reflection	7
Timetable	10
PART I: Body of Knowledge	11
INTRODUCTION	12
THEORETICAL ASSESSMENT CRITERIA	13
CONTINUOUS IMPROVEMENT MATURITY MODEL (CIMM)	14
U1. WORLD CLASS PERFORMANCE	15
E1. Continuous Improvement	15
E2. Customer value (VOC & CTQ)	15
U2. Policy development and deployment	16
E1. Policy development	16
E2. Policy deployment	16
U3. Project Management	17
E1. Managing a project	17
E2. Process Improvement Roadmaps	17
U4. Creating a solid foundation	18
E1. Professional Work Environment	18
E2. Standardized work	18
E3. Quality Management	18
U5. LEVEL II – CREATING A CONTINUOUS IMPROVEMENT CULTURE	19
E1. Visual management	19
E2. Performance management	19
E3. Basic Quality tools	19
U6. LEVEL III – CREATING STABLE AND EFFICIENT PROCESSES	20
DEFINE	20
E1. Process Mapping	20
MEASURE	20
E2. Performance metrics	20
E3. Basic statistics	21
ANALYZE	21
E4. Value Stream analysis	21
IMPROVE	21
E5. Reducing Muda (Waste)	21

E6. Reducing Muri (Overburden)2	1
E7. Reducing Mura (Unevenness) 22	2
CONTROL	2
E8. Process and Quality control	2
U7. LEVEL IV – CREATING CAPABLE PROCESSES	4
MEASURE	4
E1. Statistical techniques	4
E2. Distributions	4
E3. Measurement Systems	4
ANALYZE 2!	5
E4. Hypothesis Testing & Confidence Intervals 2	5
E5. Tests for means, variances and proportions 2	5
E6. Correlation and Regression2	5
Appendix A – Bloom's Taxonomy for Performance Criteria	6
PART II: SLIDE DECK	7
PART III: SAMPLE EXAM	.8

6

Timetabel

Day 1		Lean	Lean Six
			Sigilia
		YB	YB
-	Introduction	\checkmark	✓
U1	World Class	\checkmark	~
U2	Policy Development	✓	\checkmark
U3	Managing a project	✓	~
U4	CIMM level I - Create a solid foundation	✓	~
-	5S number Game	✓	\checkmark
U5	CIMM level II - Creating a continuous improvement culture	✓	\checkmark
-	Lean simulation: Popcorn - Soda - Ice (Round 1)	✓	\checkmark
Day 2			
U6	CIMM level III - Creating stable and efficient processes	✓	~
-	Lean simulation: Popcorn - Soda - Ice (Standup + Round 2)	✓	~
-	Lean simulation: Popcorn - Soda - Ice (Standup + Round 3)	✓	~
U7	CIMM level IV - Creating capable processes		~
-	Sample exam		\checkmark
-	Evaluation		\checkmark

PART I LEAN & SIX SIGMA YELLOW BELT

BODY OF KNOWLEDGE

INTRODUCTION

Within the domain of Lean and Six Sigma individuals can be trained and certified at different levels. The levels are listed in the Table below.

Belt level	Level
Lean Yellow Belt	Awareness
Lean Six Sigma Yellow Belt	Awareness
Lean Six Sigma Orange Belt	Foundation
Lean Green Belt	Practitioner
Lean Six Sigma Green Belt	Practitioner
Lean Black Belt	Expert
Lean Six Sigma Black Belt	Expert
Master Black Belt	Master

Table 1 - Overview of Lean Six Sigma Belt levels

The LSSA - Lean Six Sigma Academy[®] was established in September 2009 with the objective to develop an international recognized certification scheme for all Lean and Six Sigma Belt levels. For each level the LSSA Exam Board has developed Skill sets with clear criteria for skills and competences. These Skill sets specify which of the overall Lean and Six Sigma techniques are expected to be included within certain Belt level competencies.

The LSSA Yellow Belt Skill sets describe the assessment criteria for the theoretical exam. The Yellow Belt certification can be achieved independently. There are no pre-requisites for certification and therefore does not require any prior completion of any other Belt. After completion of the Lean Six Sigma Yellow Belt you can subscribe for the Lean Six Sigma Orange or Green Belt scheme.

Lean Six Sigma training is provided by a global network of 'Accredited Training Organizations' (ATOs). These ATOs provide training programs that are aligned to the LSSA Skill sets. Examination is provided through the LSSA directly or through APM Group Limited. The exams are open to all. Individuals can apply directly or sign up via one of the ATOs. It is recommended that candidates receive training through an ATO to prepare for certification. Check the LSSA website for an overview of ATOs and the actual exam requirements. On the website you will also find information about how you can claim your Digital badge. Then share your Digital badge on LinkedIn and show that you are active as a Yellow Belt.



Figure 1 – Digital badge

THEORETICAL ASSESSMENT CRITERIA

The assessment criteria for the theoretical Lean Yellow exam are as follows:

- The theoretical exam consists of 40 multiple choice questions.
- The duration of the exam is 60 minutes.
- The pass mark for the exams is set at 63% (25 marks or more required to pass).
- The exam is Open book, where a maximum of 2 books are allowed.
- A calculator is allowed.
- You must be able to identify yourself with photographic ID.
- There is no practical exam (only for Green and Black Belt certification).

The assessment criteria for the theoretical Lean Six Sigma Yellow exam are as follows:

- The theoretical exam consists of 50 multiple choice questions.
- The duration of the exam is 60 minutes.
- The pass mark for the exams is set at 63% (32 marks or more required to pass).
- The exam is Open book, where a maximum of 2 books are allowed.
- A calculator is allowed.
- You must be able to identify yourself with photographic ID.
- There is no practical exam (only for Green and Black Belt certification).

CONTINUOUS IMPROVEMENT MATURITY MODEL (CIMM)

CIMM summarizes best practices and techniques of different methodologies in one framework, for different stages of maturity. The CIMM framework describes five consecutive stages: Creating a solid foundation, Creating a continuous improvement culture, Creating stable and predictable processes, Creating capable processes and Creating future-proof processes. Within Lean only the first three levels apply. For Six Sigma all five levels apply.

For each instrumental technique in the CIMM framework, it is possible to indicate the associated desired behavior. The CIMM framework identifies a number of behaviors for each improvement technique, which helps determine whether or not the implementation of the technology in question will be a success and results in a lasting impact.



Figure 2 - CIMM Process (HOW) and People (WHO)

The following chapters describe the theoretical skill set elements. The structure consists of a number of 'Units', 'Elements' and 'Performance Criteria'.

- Unit: The skill set areas are called 'Unit'. The chapters in the book 'Climbing the Mountain' reflect the 'Units' described in this skill set.
- **Element:** Each 'Unit' consists of a number of 'Elements'. The sections]in each chapter of the book 'Climbing the Mountain' reflect the 'Elements' in this skill set.
- **Performance Criteria:** Each 'Element' consists of a number of 'Performance Criteria' and each 'Performance Criteria' has an explanation. These describe the tools, techniques and competencies that are required to be achieved by the Belt. A 'Cognitive Level' has been assigned to each 'Performance Criteria' according to Bloom's Taxonomy [Appendix A].

U1. WORLD CLASS PERFORMANCE

The Unit 'World Class Performance' reviews the general philosophy of continuous improvement. It discusses the overview of different process improvement methods and the history of the most important methodologies. It also explains why continuous improvement is important.

E1. CONTINUOUS IMPROVEMENT

The Learning Element 'Continuous Improvement' reviews the history, values and principles of the most common process improvement methodologies. Also, the culture within a continuous improvement organization as well as roles and responsibilities are reviewed.

U1.E1.PC1	Continuous Improvement history Recall the origins of quality management, Kaizen and Lean.	Remember
U1.E1.PC2	Continuous Improvement values and principles Understand that Lean philosophy and principles realize improvemen times and efficiencies. Recall the difference between Top-Down approach.	Understand ts in process lead and Bottom-Up
U1.E1.PC3	Continuous Improvement Maturity Model Understand the different maturity levels of process management as Continuous Improvement Maturity Model.	Understand described in the

U1.E1.PC4Continuous Improvement roles and responsibilitiesRememberRecall the various continuous improvement roles and responsibilities.

E2. CUSTOMER VALUE (VOC & CTQ)

The Learning Element 'Customer value' reviews customer identification (internal/external), customer requirements and the CTQ-measure.

U1.E2.PC1 Voice of the Customer (VOC) Understand Understand the Voice of the Customer (VOC). Understand that different customers have different needs, expectations, requirements and desires. Understand

U1.E2.PC2 Critical to Quality (CTQ) Understand Understand that Voice of the customer requirements need to be translated into CTQ targets and specifications. Understand that Voice of the customer requirements need to be translated into CTQ targets and specifications.

U2. POLICY DEVELOPMENT AND DEPLOYMENT

The Unit 'Policy development and deployment' reviews how policy development and deployment help organizations in defining a continuous improvement strategy and to run efficiently in achieving their objectives.

E1. POLICY DEVELOPMENT

The Learning Element 'Policy development' explains the importance of a so-called True North and how to develop an operational excellence strategy.

U2.E1.PC1 **Vision & True North**

Understand Understand the meaning and importance of the organization's True North. Understand the meaning of Operational Excellence.

E2. POLICY DEPLOYMENT

The Learning Element 'Policy deployment' is focusing on the execution process of the improvement strategy. Within this element financial and performance metrics will be reviewed.

U2.E2.PC1 Management of change

Recall that an organization's culture can influence the success of Lean Six Sigma deployment.

Remember

U3. PROJECT MANAGEMENT

The Unit 'Project Management' outlines the way improvement projects should be executed. A number of process improvement roadmaps is reviewed. The Unit also reviews project selection.

E1. MANAGING A PROJECT

The Learning Element 'Managing a project' reviews how to set up, plan and execute a project.

U3.E1.PC1	Project selection	Understand
	Understand the process of project selection.	

U3.E1.PC2 Project charter Understand Describe a proper problem statement in relation to customer requirements or complaints.

E2. PROCESS IMPROVEMENT ROADMAPS

The Learning Element 'Process Improvement Roadmaps' reviews a number of roadmaps, including PDCA and DMAIC.

- U3.E2.PC1 Kaizen roadmap (PDCA) Understand Understand project management methods that are used at the shop floor for Kaizen initiatives (e.g. PDCA, A3-report).
- U3.E2.PC2Lean Six Sigma Roadmap (DMAIC)UnderstandUnderstand and follow the DMAIC roadmap.Understand

15

U4. CIMM LEVEL I – CREATING A SOLID FOUNDATION

The Unit 'Creating a solid foundation' reviews how to achieve a solid foundation for further process improvement programs. This foundation consists of a proper and organized work environment and standardized work.

E1. PROFESSIONAL WORK ENVIRONMENT

The Learning Element 'Professional work environment' is about good housekeeping and how to set up a proper and safe work environment in a structured manner.

U4.E1.PC1Organized work environment (5S)UnderstandUnderstand how organizing the work environment, by applying 5S (Sort, Straighten,
Shine, Standardize, Sustain), will improve safety and moral.

E2. STANDARDIZED WORK

The Learning Element 'Standardized work' is about implementing and improving standards and protocols.

U4.E2.PC1Standard Operating ProcedureUnderstandUnderstand that standardized tasks are the foundation for continuous improvement.Interpret standard operating procedures (SOPs) and one-point-lessons.

E3. QUALITY MANAGEMENT

The Learning Element 'Quality Management' is about developing procedures to identify and detect defects. Also preventing mistakes and avoiding problems are part of this element.

U4.E3.PC1 Quality Management System

Understand quality procedures, the need to be disciplined and to work according procedures.

Understand

U5. CIMM LEVEL II – CREATING A CONTINUOUS IMPROVEMENT CULTURE

The Unit 'Creating a continuous improvement culture' reviews how to create a continuous improvement culture at the shop floor. This Unit reviews setting up Kaizen teams. It also reviews a number of problem-solving techniques and tools.

E1. VISUAL MANAGEMENT

The Learning Element 'Visual management' reviews how to set up a workplace that is organized and self-explaining.

U5.E1.PC1 Visual workplace Apply Apply elements of Visual Workplace and understand how these can help to control the improved process.

E2. PERFORMANCE MANAGEMENT

The Learning Element 'Performance management' reviews how to set targets, and how to organize the work to be done. The Learning Element also reviews how to facilitate improvement teams at the shopfloor that work on Kaizen improvement initiatives and Problem Solving.

U5.E2.PC1 Daily stand-up meetings

Participate in stand-up meetings and Scrum sessions.

U5.E2.PC2 Kaizen events and problem solving

Describe and understand the importance of the Kaizen principles. Participate in Kaizen events and continuous improvement initiatives. Apply root cause analysis and understand the issues involved in identifying a root cause.

E3. BASIC QUALITY TOOLS

The Learning Element 'Basic quality tools' reviews techniques to visualize data and guidelines how to facilitate and participate in brainstorm sessions.

U5.E3.PC1Brainstorm techniquesUnderstandUnderstand brainstorm techniques: Affinity diagram, 5-Whys and Ishikawa. Participate
in brainstorm sessions.Understand

U5.E3.PC3 Visualization of data Understand Understand basic quality tools to visualize data: Scatter plot, Pareto chart, Bar chart, Pie chart, Time series plot and Histogram.

Apply

Understand

U6. CIMM LEVEL III - CREATING STABLE AND EFFICIENT PROCESSES

The Unit 'Creating stable and efficient processes' reviews how the logistical flow of processes can be improved and made more stable, predictable and efficient. This Unit reviews tools which can be used to visualize and analyze the process flow as well as a number of tools and techniques that can be used to improve efficiency, effectiveness, productivity and agility of processes. All Level III Learning Elements and Performance Criteria follow the DMAIC structure.

DEFINE

E1. PROCESS MAPPING

The Learning Element 'Process Mapping' reviews a number of tools to map and analyze the flow of a process.

U6.E1.PC1	High-level process description and SIPOC Understand the Spaghetti diagram and SIPOC.	Understand
U6.E1.PC2	Process Flow diagram	Understand
	Understand the importance of process mapping to visualize the	flow of activities and

MEASURE

E2. PERFORMANCE METRICS

decisions within a process.

The Learning Element 'Performance metrics' reviews performance metrics for both logistics as for quality.

- U6.E2.PC1Performance metrics (Time)RememberRecall performance metrics related to time (e.g. takt time, cycle time and lead time).
- U6.E2.PC2Performance metrics (Quality)RememberRecall performance metrics related to quality (e.g. Yield and RTY).Remember

E3. BASIC STATISTICS

The Learning Element 'Basic statistics' reviews different types of data, measurement scales and data collection tools. Also a set of measures (statistics) that characterizes a given set of data are reviewed.

U6.E3.PC1	Data types and Measurement scales	Remember
	Recall the different types of data and that there is a difference	between counting and
	measuring.	

U6.E3.PC2Data collection toolsUnderstandUnderstand tools for collecting data such as data sheets and check sheets.

ANALYZE

E4. VALUE STREAM ANALYSIS

The Learning Element 'Value Stream Analysis' reviews how to create a Value Stream Map of the current situation.

U6.E4.PC1	Value adding versus Non-value adding	Understand
	Understand the difference between value adding and non-value addin	g activities.

IMPROVE

E5. REDUCING MUDA (WASTE)

The Learning Element 'Reducing Muda' reviews how to identify and eliminate Waste in the organization and its processes.

U6.E5.PC1Waste identification and eliminationApplyIdentify and eliminate process Waste (Muda): Overproduction, Waiting, Transport,
Overprocessing, Inventory, Movement, Defects and Unused expertise.

E6. REDUCING MURI (OVERBURDEN)

The Learning Element 'Reducing Muri' reviews how to identify overburden in the organization. This element also reviews how to implement flow and work balancing to reduce overburden.

U6.E6.PC1 Flow

Understand the meaning of Flow.

Understand

E7. REDUCING MURA (UNEVENNESS)

The Learning Element 'Reducing Mura' reviews how to identify unevenness in the organization and its processes. This element also reviews a number of techniques to reduce unevenness.

U6.E7.PC1 Pull

Understand the meaning of Pull.

Understand

CONTROL

E8. PROCESS AND QUALITY CONTROL

The Learning Element 'Process and Quality control' looks at how results that have been achieved in process improvement projects can be sustained. This element reviews the following techniques and principles: First Time Right, Jidoka and Poka Yoke.

U6.E8.PC1 First Time Right (FTR)

Understand

Understand the importance of First Time Right principles. Understand the work has to be stopped when there is a quality problem (Jidoka). Identify opportunities to apply Poka Yoke to avoid quality problems.

U7. CIMM LEVEL IV – CREATING CAPABLE PROCESSES

The Unit 'Creating Capable Processes' focuses on reducing variation in a stable process with the objective to create a process capable of meeting customer requirements. This Unit reviews the application of Six Sigma and statistical tools used to assure a valid and reliable performance measurement system, to collect data and to analyze the performance of processes. Six Sigma focuses on quality breakthrough improvement projects. All Level IV Learning Elements and Performance Criteria follow the DMAIC structure.

MEASURE

E1. STATISTICAL TECHNIQUES

The Learning Element 'Statistical techniques' reviews a number of metrics that are often used in Six Sigma projects. The element also reviews a number of sampling methods for assuring data accuracy and integrity.

U7.E1.PC1	Variation	Understand
	Understand the difference between special cause and common cause	variation.

U7.E1.PC2 Sampling Understand Understand it is important to follow systematic data collection. Understand the basic terms of statistics e.g. mean and spread.

E2. DISTRIBUTIONS

The Learning Element 'Distributions' reviews a number of continuous and discrete distributions. The element also reviews the central limit theorem and a number of probability concepts.

U7.E2.PC1 Continuous distributions

Recall that many processes are normally distributed.

E3. MEASUREMENT SYSTEMS

The Learning Element 'Measurement Systems' reviews how to evaluate measurement systems.

U7.E3.PC1 Measurement systems analysis

Understand the importance of reliable measurement systems.

Understand

Remember

ANALYZE

E4. HYPOTHESIS TESTING & CONFIDENCE INTERVALS

The Learning Element 'Hypothesis Testing & Confidence Intervals' reviews test methods that are used to test a hypothesis. This Learning Element also discusses Confidence Intervals that indicate the reliability of test conclusions.

U7.E4.PC1 Hypothesis testing

Recall the basic principles of hypothesis testing.

E5. TESTS FOR MEANS, VARIANCES AND PROPORTIONS

The Learning Element 'Tests for means, variances and proportions' reviews the basic principles of hypothesis testing.

U7.E5.PC1 Tests for means Recall the basic principles of tests of means.

E6. CORRELATION AND REGRESSION

The Learning Element 'Correlation and Regression' describes the predictive models using regression techniques to determine the relation between factors on a response.

U7.E6.PC1	Correlation coefficient Recall the basic principles of correlation.	Remember
U7.E6.PC2	Regression analysis Recall the basic principles of linear regression.	Remember

Remember

Remember

APPENDIX A – BLOOM'S TAXONOMY FOR PERFORMANCE CRITERIA

In addition to specifying content, each performance criteria in this skill set also indicates the intended complexity level of the test questions for each topic. These levels are based on 'Levels of Cognition' (from Bloom's Taxonomy – Revised, 2001), and can be used to create learning outcomes for students.

The Taxonomy of Educational Objectives, often called Bloom's Taxonomy, is a classification of the different objectives that educators set for students (learning objectives). The taxonomy was proposed in 1956 by Benjamin Bloom, an educational psychologist at the University of Chicago. During the nineties, Lorin Anderson a former student of Bloom revisited the cognitive domain in the learning taxonomy. Bloom's Taxonomy divides educational objectives into three 'domains': Affective, Psychomotor and Cognitive. This Skill set only notices the Cognitive domain. The 'Levels of Cognition' are in rank order - from least complex to most complex. The Yellow Belt skill set mainly focuses on the levels 'Remember' and 'Understand'.

Remember

Recall or recognize terms, definitions, facts, ideas, materials, patterns, sequences, methods, principles, etc. The LSSA uses the following verb at this level: Recall.

Understand

Read and understand descriptions, communications, reports, tables, diagrams, directions, regulations, etc. The LSSA uses the following verbs at this level: Describe, Follow, Identify, Interpret, Participate, Understand.

Apply

Know when and how to use ideas, procedures, methods, formulas, principles, theories, etc. The LSSA uses the following verbs at this level: Apply, Assess, Assure, Calculate, Convert, Define, Demonstrate, Divide, Eliminate, Empower, Facilitate, Implement, Motivate, Organize, Plan, Prepare, Present, Promote, Propagate, Review, Select, Standardize, Support, Use.

Analyze

Break down information into its constituent parts and recognize their relationship to one another and how they are organized; identify sublevel factors or salient data from a complex scenario. The LSSA uses the following verbs at this level: Analyze, Construct, Deploy, Design, Develop, Distinguish, Evaluate, Lead, Manage, Translate.

Evaluate

Make judgments about the value of proposed ideas, solutions, etc., by comparing the proposal to specific criteria or standards. The LSSA does not uses this level in their skill sets.

Create

Put parts or elements together in such a way as to reveal a pattern or structure not clearly there before; identify which data or information from a complex set is appropriate to examine further or from which supported conclusions can be drawn. The LSSA does not uses this level in their skill sets.

PART II

LEAN & SIX SIGMA YELLOW BELT

SLIDEDECK





							lean six sig
				R		9	
Theory exam	LYB	LSS YB	LSS OB	Lean GB	LSS GB	LSS BB	
Nr of questions	40	50	50	40	60	60	
Language	ENG/NED	NED/ENG	NED/ENG	NED/ENG	NED/ENG	NED/ENG	
Pass mark	25	32	32	25	38	38	
Pass mark	63%	63%	63%	63%	63%	63%	
Duration	60min	60 min	120 min	120 min	180 min	180 min	
Books	Open book	Open book	Open book	Open book	Open book	Open book	
Tools	-	-	Calculator	Calculator	Minitab	Minitab	
Practical assessment	LYB	LSS YB	LSS OB	Lean GB	LSS GB	LSS BB	
		-	-	1 project	1 project	1 x level III +	
				level III	level III	1 x level IV	
				(or higher)	(or higher)	(or higher)	









































