Student Knowledge Inventory & Experience Self-Assessment

Introduction

GR8PM is committed to bringing you "best value" training so you achieve your certification goal - the *Certified Disciplined Agilist (CDA),* the *Certified Disciplined Agile Practitioner (CDAP)* and/or *Disciplined Agile Lean Scrum Master (DALSM)* designations.

This assessment must be completed, scanned and returned *before completion of the class* (and ideally before the class beings). It should only take 5 to 7 minutes to complete.

The assessment is designed so students assist the Instructor with a quantitative assessment of their level of proficiency and experience with Lean. It also helps GR8PM with data we can use to improve our training. It does not affect any of your learning outcomes or certification goals so please be as frank as possible in your self-analysis of your comfort with the Lean body of knowledge and your work experience. It will not be shared with anyone. It is only for GR8PM internal use.

Please do not let this become a reason for any stress.

We trust you to understand our interest in protecting your privacy and accept that means we will not provide more detailed data to you, or anyone.

The GR8PM Team

Lean Knowledge Areas for the Assessment

1. History & Development of Lean

2. Lean Flow Concepts and Principles

3. Fundamentals of Lean Thinking

4. Lean Tools and Practices

5. Roles and Responsibilities of People in Lean

PART 1 – Self-rated Lean experience. Calibrate your experience using the Scale for guidance. Place a number in the square adjacent to the description.

SCALE:	KNOWLEDGE AREA
Score = 0 UNTRAINED: **Score = 0** I have no exposure to or knowledge of these topics, or only at the level of casual conversation.	☐ I can describe and explain the contextual variables that affect Lean system effectiveness, such as the factors impacting change resistance, the delivery transformation imperative and demonstrating benefits realization.
AWARE: **Score = 1** I have witnessed or have had minimal organized instruction on these topics. I have seen them used in my work setting.	☐ I can explain and apply the principles of lean thinking to the customer value stream. I can apply the Japanese term Gemba to show how "the actual place" correlates to value creation in various environments.
EQUIPPED: **Score = 2** I am able to participate in and contribute to these topics with comprehension of what other people mean in a give-and-take dialog as needed.	☐ I have command of Lean definitions for core process concepts, including inputs, outputs, process elements, process maps, lead and cycle time, capacity; throughput and balancing. I use them regularly while working.
CAPABLE: **Score = 3** I am able to understand and explain these topics. Could actually tell others how to apply these topics. Have written and presented about applying these topics to a lean activity.	☐ My proficiency applying fundamental principles of Lean Thinking, like value mura, muri, muda, flow, pull, perfection, value streams and the 8 wastes is commercially and professionally recognizable.
	☐ Lean tools and concepts, such as takt time, Kanban, kitting standard work, VSMA, 6S, 5 Whys, single piece flow, andon, Genschi Genbutsu ("go and see"), and balanced work, are comfortable for me use and explain to stakeholders.
SKILLED: **Score = 4** I am skilled in the practice or implementation of this knowledge area. I can apply it to improve value creation and have done so more than once.	☐ I can competently apply Lean engineering principles, such as product lifecycle, IPPD, info wastes, PDVSM, and DFMA, to help my teams integrate lean engineering tools for consistently better outcomes.
EXPERT: **Score = 5** I lead and innovate in this area or lean activity, have taught others about these topics, and have ascertained new knowledge that has improved the lean practice in this area.	☐ I can help integrate suppliers as partners within a Lean supply chain using management principles, such as four attributes of a lean supply chain and supplier certification, delivering effective lean implementations with legacy suppliers.
	☐ My understanding of the role of people in organizations allows me to improve employee satisfaction, strengthen relational coordination and cultivate the 3 elements of collaboration for teams and IPTs.

PART 2 – Quick quiz of Lean's core concepts, terms and practice standards. Please **circle** your choice of answer for each question. Then scan and email a copy of the completed Self-Assessment and Quiz to ops@gr8pm.com with the email Subject Line "*Lean Self Assessment*."

Quiz

01. Things that get in the way of delivering value do not include?

A. Visibility
B. Handoffs
C. Handbacks
D. Hidden work

02. Defined defects in a Lean manufacturing environment do not include?

A. Under Processing
B. Overproduction
C. Inventory
D. Motion

03. In a Lean environment creating Intangible or Knowledge Work deliverables the definition of Overproduction does not include?

A. Increased delays from unneeded feedback
B. Unused development capacity
C. Building unneeded features
D. Hidden complexity

04. There are how many officially recognized Lean Principles?

A. 5
B. 6
C. 7
D. None

05. PMI and Disciplined Agile recognize all the following as Lean Principles except?

A. The Role of Leadership
B. Optimize the Whole
C. Attend to Delays
D. Build Quality In

06. Lean Six Sigma defines Muda as?

A. Waste
B. Unevenness
C. Overburden
D. Waiting

07. Types of business value include all of the following except?

A. Preparing for marketing
B. Improving internal methods
C. Mitigating risk
D. Learning something new

08. Reducing batch size often brings a system back into control because?

A. It makes things easier to build
B. It is easier to integrate them into larger batches
C. Smaller batches enable task switching
D. Small batch sizes enable test-after verification methods

09. A Minimum Viable Product (MVP) is a product?

A. With just enough features satisfy early customers
B. Where feedback for future product development is not needed
C. Expensive development delivers a feature-rich product
D. Failure due to incorrect assumptions is a major risk

10. A Minimum Business Increment (MBI)?

A. Can be built, deployed and consumed intelligently from a business perspective
B. Contains the critical pieces required for realization of value
C. Fits when Epics or Features can't get the item built and realized
D. Contains the definition of what it takes to realize value