

Lean Construction Institute-Certified Practitioner-Construction (LCI-CPC)

Knowledge & Capability Assessment Content Outline

Domain	Knowledge Assessment
Principles 17%	1.1: Identify key features of a Lean culture
	1.2: Recognize Lean Operating System (Lean Project Delivery System) as an organized implementation of Lean Principles and Tools supporting a Lean culture
	1.3: Determine if actions represent Respect for People
	1.4: Determine if actions represent Optimizing the Whole
	1.5: Determine if actions represent Generating Value
	1.6: Distinguish 8 types of Waste
	1.7: Determine if actions reduce or eliminate waste
	1.8: Determine if actions represent Focus on Flow
	1.9: Determine if actions support Continuous Improvement/Plan Do Check Act (PDCA)
	1.10: Identify key features of Integrated Project Delivery/IPD
People-Related 17%	2.1: Determine if actions represent creating a Lean Culture
	2.2: Identify key items to include during Onboarding/Team Forming
	2.3: Determine if actions represent building a High-performing Team
	2.4: Recognize the importance of assessing the emotional health of the team regularly
	2.5: Recognize advantages of Early Stakeholder Involvement
	2.6: Determine if actions support a culture of Commitment/Accountability
	2.7: Determine if actions support making a Reliable Promise/Commitment
	2.8: Identify how Conditions of Satisfaction support the project
	2.9: Determine if actions represent Distributed Leadership
	2.10: Recognize the importance of Transparency to a Lean culture
Practices 66%	3.1: Identify the 5 Connected Conversations (levels) of the Last Planner System®
	3.2: Determine if actions represent Pull methodology
	3.3: Determine if actions support creating a Milestone Plan
	3.4: Determine if actions support creating a Phase Pull Plan
	3.5: Identify effective practices for LPS tag/stickie note content
	3.6: Identify the relationship between handoffs and Phase Pull Planning
	3.7: Determine if actions support creating a LookAhead Plan
	3.8: Determine if actions support Constraint Identification
	3.9: Determine if actions support Constraint Mitigation
	3.10: Determine if actions support creating a Weekly Work Plan
	3.11: Determine if actions support Percent Plan Complete Tracking
	3.12: Determine if actions support Variance Management
	3.13: Determine if actions support conducting the Daily Huddle
	3.14: Determine if actions support Work Structuring
	3.15: Determine if actions support Work Leveling
	3.16: Determine if actions support implementing Takt Time methodology

Domain	Knowledge Assessment
Practices 66%	3.17: Recognize key differences between Last Planner System® implementation design vs. construction
	3.18: Determine if actions support an Effective Big Room approach
	3.19: Distinguish the difference between leading and facilitating
	3.20: Determine if actions represent effective Visual Management implementation
	3.21: Determine if actions represent a Target Value Delivery approach
	3.22: Determine if actions represent effective use of the Cost Model for proactive forecasting and budget management
	3.23: Determine if actions represent proactive Supply Chain Management
	3.24: Recognize the connection of the Cost Model to Target Value Delivery
	3.25: Determine if actions support Risk/Opportunity Management
	3.26: Determine if actions support PDCA through the ability to move to target state from current state
	3.27: Determine if actions represent collaborative problem solving using A3/PDCA Thinking
	3.28: Determine if actions support 5 Why Analysis
	3.29: Recognize the connection between Root Cause Analysis and 5 Why Analysis
	3.30: Determine if actions represent Continuous Reflection/Retrospective
	3.31: Determine if actions support conducting a Plus/Delta
	3.32: Identify circumstances to implement Value Stream Mapping
	3.33: Identify circumstances to implement Process Mapping
	3.34: Determine if actions and behaviors support conducting effective Gemba Walks
	3.35: Determine if actions support conducting effective First Run Studies
	3.36: Determine if actions support implementing 5S
	3.37: Recognize appropriate implementation of Declaring a Breakdown/Stopping the Line
	3.38: Determine if actions represent effective Mistake Proofing
	3.39: Recognize the connection between BIM and Lean
	3.40: Identify the key purpose of Choosing by Advantages
	3.41: Determine if actions support effective use of buffers with Just-in-Time (JIT)
	3.42: Recognize how Standard Work supports continuous improvement
	3.43: Recognize the connection of Modularization to Lean
	3.44: Recognize how Lean implementation enhances Safety and Quality

Domain	Capability Assessment
Principles To Be Addressed in Practices Below	Respect for People
	Optimize the Whole
	Generating more Value
	Eliminating Waste
	Improvements to Flow
	Driving Continuous Improvement
People-Related	Creating a Lean Culture
	Creating a culture of Accountability/Commitment
Practices Required	The 5 Connected Conversations of Last Planner System
	Milestone Planning
	Phase Pull Planning
	Look Ahead Planning
	Weekly Work Planning
	Learning/Improving
	Daily Huddles
	Percent Plan Complete (PPC)
	Variance Management
Practices 4 Required	Visual Management
	Risk/Opportunity Management
	Problem Solving A3/PDCA Thinking
	Root Cause Analysis/5 Why
	Process Mapping
	Conducting Gemba Walks
	5S Implementation