

Lean Construction Practitioner Certification

Exam Content Outline

Domain 1: 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

Domain 2: 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

Domain 3: 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 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
- 3.17: Recognize key differences between Last Planner System® implementation in construction vs. design
- 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