

Introduction to Lean Design & Construction



A philosophy, mindset and a business management system grounded in



➤ A focus on maximizing value for our customers by eliminating waste in multiple forms



➤ It is about engaging employees in problem solving and innovating new ways of doing our work



➤ It is a culture of respect, continuous improvement and collaboration



➤ It applies directly to how every organization operates both internally and externally

What Is Lean?

What Is Lean Design & Construction?



Adapting Lean thinking and methodologies to target the specific challenges in design and construction



Applies to the entire construction industry, not only the phase where construction takes place



Establishes
a new alignment
from all
stakeholders
involved to project
deliverables



A shift in thinking that affects commercial (integrated project delivery), operational (Lean project delivery and management systems) and organizational aspects of design & construction



Improving project execution in a holistic manner that achieves a target value for the customer reflected in a balance of time (schedule/delivery), quality and cost



Breaks down silo behaviors to achieve a 'one-team' project culture

Why Is Lean Beneficial?

More effective and efficient engagements throughout total project to realize design and ensure requirements met More effective and efficient engagements throughout total project to realize design and ensure requirements met



More effective and efficient operations
Improved culture and employee engagement



Improved supply chain relations and value-added partnerships Developing and leveraging practises

that are reflective of 'best in class' Meaningful impact on life-cycle decisions

and operating costs
Able to incorporate innovations into design
Lean processes drive cost containment and

constructability assessments

More competitive success
for your organization



Improved workflows and coordination throughout the total project, consistency and reliability in execution

How Can You Engage with Lean?

- Train your employees on Lean thinking,
 engage in continuous improvement activities
 - Remove waste or non-value added activities from every process within your company, all roles and all locations. Seek improvements everywhere
- Try out techniques for learning, improving value output, reducing waste and improving work environment; make continuous improvement a regular activity
 - Extend the conversation and influence others in your *supply chain* to try Lean for mutual benefit
- Engage in collaborative work wherever possible, including in design, planning, scheduling and improvement activities

Better final product and value achieved, more consistency, fewer surprises, informed and engaged in the process

Learn more at Icicanada.ca.