

LEAN YELLOW BELT CERTIFICATE ENHANCEMENT: LEAN TOOLS FOR VIRTUAL DESIGN & CONSTRUCTION

COURSE DESCRIPTION

Learn the potential for Building Information Modelling (BIM) as well as Virtual Design and Construction to enable a Lean and effective workflow that will reduce many of the eight wastes. Building Information Modelling can help design teams reduce the “over-production” and non-utilized staff talent wastes, and as well as prevent “defects” and “waiting” and “extra-processing” that plague the design workflow.

Prerequisites: This training is an enhancement to the Lean Yellow Belt Certificate Training Program.

PROGRAM OBJECTIVES

- ✓ **Understand the wastes that are commonly found in the design workflow.**
- ✓ **Learn how to prevent process wastes and utilize a Lean design process that maximizes the value of Building Information Modelling and virtual design and construction.**
- ✓ **Review how team collaboration and creating project hand-offs are instrumental in designing process flow and creating value for the customer.**

PROGRAM STRUCTURE

MODULE	LEARNING OUTCOMES	HOURS
Lean Tools for Virtual Design and Construction		
Learn how Building Information Modelling (BIM) and Virtual Design and Construction enable a Lean and effective workflow.	<ul style="list-style-type: none">• Review the 8 Wastes and Identify which can have the most impact and reduction through BIM and Virtual Design and Construction processes.• Demonstrate how project information / work flow hand-offs through pull planning can be optimized in virtual design and construction.• Create a BIM plan that ensures team communication and collaboration.• Learn how flow can be established and sustained through Lean culture in teams working with Building Information Modelling.	3

EVALUATION

Attendance and participation in group discussions	80%
Submission of a theoretical BIM Plan for a potential project	20%
TOTAL	100%

PROGRAM DELIVERY

This course is delivered through an instructor-led session with group discussion, and audio/visual presentation.

PRICE

\$175 per student

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INSTRUCTORS



Avel Espiritu is an expert in Lean principles and practices. With years of progressive experience leading and managing projects, he applies Lean principles to execute project tasks and bring them to a close – on schedule and within budget.

As an innate team builder and dedicated mentor, Avel enjoys coaching business owners how to think Lean, particularly when they see direct results to their bottom line. Avel is an ASQ Certified Six Sigma Black Belt and is also the recipient of the Dale Carnegie Outstanding Performance Award.



Shafraaz Kaba is an Intergrated Project Delivery (IPD) expert and architect who thrives on facilitating architecture that is ecologically aware. He is previously known for his work at Manasc Isaac Architects, where he focused on net-zero energy and carbon-emission reducing goals for buildings. Shafraaz now facilitates the creation of regenerative, net zero energy, and carbon neutral architecture using Lean culture and design thinking.

Over the last 20 years, he has made significant contributions to the design and cultural landscape of Edmonton, mainly through founding Media Architecture Design Edmonton (MADE). Shafraaz has been involved with Energy Efficiency Alberta and the Lean Construction Institute of Canada.