VIRTUAL DESIGN & CONSTRUCTION PROFESSIONAL PROGRAM





Nine Core Modules of Selfpaced Learning



Professional Practicum



Online Knowledge Assessments

Project Progress

Check-Ins



Expert Instruction



Integration Workshop

VDC showed me how to reduce design and construction coordination risk dramatically and meet project milestones reliably and on budget. - Contractor



In collaboration with **Stanford** Center for Professional Development Technological innovation is transforming the AEC industry. Sustainable success depends on smart practices. Since 2008, the Stanford Center for Integrated Facility Engineering (CIFE) has offered a VDC Certification Program to teach AEC Industry professionals how to effectively obtain a high value for their projects and businesses. This world-class program is now offered ONLINE and supported by VDC experts at SBI. Learn how to design, construct, and deliver buildings in a manner that optimizes the cost, schedule, and quality of the work.



Use collaborative planning, management, and project execution methods to optimize success of design and construction projects.

Establish vision, strategy, and implementation roadmap

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Apply VDC on real-world projects.

to realize business and project objectives.





Leverage BIM as part of a broader approach integrating visualization, simulation, and whole-team collaboration to maximize project outcomes.

This program includes online content for a self-paced learning, and assessment questions and exercises at the end of each online course section to review learned knowledge. This program is led by Stanford Professor Martin Fischer, Director of the Center for Integrated Facility Engineering, part of the Stanford School of Engineering. Strategic Building Innovations (SBI) has been collaborating with Stanford for many years and has trained hundreds of professionals from some of the leading builders in the industry.

Course Components (see page 3 for details)		Daced Learning SB-lead In-depth Pract Learning Prog	
Nine Core Modules of Self-paced Learning With Online Knowledge Assessments			
Expert Instruction			
Project Progress Check-ins			
Professional Practicum		•	
Integration Workshop			
Option SBI Courses (see Page 6 for details)			•
Stanford (SCPD) Record / Certifi	cation	•	*
Stanford Faculty	SBI Instructors	• Record of Completion	Certificate of Completion
Delivered by strategic buildinginnovation	6	In collaboration v Stanford Center for Profes	vith sional Development

COURSE COMPONENTS



NINE CORE MODULES OF SELF-PACED LEARNING WITH ONLINE KNOWLEDGE ASSESSMENTS (See Page 4 for syllabus)

Participants will have full access to approximately 14 hours worth of online content for a self-paced learning. Approximately 5 hours worth of assessment questions and exercises are available during and at the end of each online course section to review learned knowledge. See Nine Core Modules for details.

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I learned that we aren't as precise as we need to be in defining project objectives, or as optimal in our strategy for engaging our design and engineering partners.

-Project Executive



Participants will engage in in-person and/or virtual coaching sessions with instructors on applying VDC, use related software, and project evaluations.



PROFESSIONAL PRACTICUM

Participants will embark on a practicum to explore in-depth practical implementation of VDC in their areas of work.

PROJECT PROGRESS CHECK-INS

Participants will share their progress through monthly reporting. Instructors and fellow participants will provide feedback and advice in each check-in session.





INTEGRATION WORKSHOP

Participants share their VDC implementation experience, results, learning points and insights gained during the implementation period. Instructors will provide guidance for the participants to plan VDC direction for the company and future projects

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NINE CORE MODULES

Module	Course Topics	Course Descriptions
1	Course Introduction	This course features real-world examples to provide relevant examples of the concepts.
		Welcome video: 2 mins
2	VDC Framework Overview	This module introduces the VDC Framework with case studies that demonstrate successfully delivered projects.
		Video: 2.5 hours Exercises: 45 mins
3	Metrics	This module introduces metrics, the framework, and case studies on managing metrics.
		Video: 2 hours Exercises: 45 mins
4	Integrated Project Delivery (IPD)	This module introduces IPD and the simple framework for a high performing building and integrated process.
		Video: 1 hour Exercises: 30 mins
5	Production Organization Process (POP) Matrix	This module introduces POP examples, how to use the POP matrix, and how POP models are connected to cost, income and VDC.
		Video: 1 hour Exercises: 30 mins
6	Integrated Concurrent Engineering (ICE)	This module introduces the concept of reciprocity through ICE sessions (the Big Room), ICE session metrics and controllable factors.
		Video: 3 hours Exercises: 30 mins
7	Building Information Modelling (BIM)	This module introduces BIM and its value in DPR's five levels of organization perspectives, BIM related production metrics and controllable factors.
		Video: 3.5 hours Exercises: 30 mins
8	Project Production Management (PPM)	This module introduces production systems, variabilities and how to manage them, the difference between process, plan and schedule, metrics and controllable factors.
		Video: 2 hours Exercises: 30 mins
9	VDC Implementation	This module is a recap of VDC and how it can be strategically beneficial for a company and common implementation challenges.
		Video: 2 hours Evereiseo: 10 mins

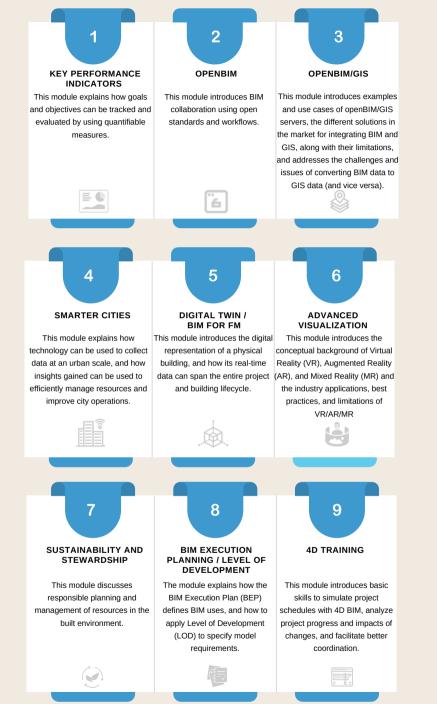
Video: 2 hours | Exercises: 10 mins

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OPTIONAL SBI COURSES



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Email us to learn more: sbi@sbi.international



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