

Professional Certificate in Construction Project Management (Online)

Schedule and Course Descriptions

The **Professional Certificate in Construction Project Management** provides an all-encompassing overview of construction project management principles and best practices presented in a clear and concise format. This online program will help students develop managerial strategies and employ the principles of project management – from planning and scheduling, to the legal aspects of construction including contracts and insurance. Students will also learn the tangible and intangible criteria involved in equipment selection, and the principles of green construction. To earn the certificate, students must successfully complete the required five courses within two years.

Textbooks: Textbooks are not included in course fees and will cost approximately \$100-\$150 per course. Textbook information is listed in the course descriptions below. Books are available for purchase at the SDSU Bookstore (619.594.7535) and can be conveniently shipped to your home.

5 easy steps to order your textbooks:

- 1) From the SDSU Bookstore website [Ship-to-Home web page](#), accept the terms and conditions;
- 2) Select **Extended Studies – [current term]**
- 3) Select the department: **Engineering**
- 4) Select the course number
- 5) Select (any of) the section(s) listed

This will show you the textbook for the class and you can proceed with your purchase.

Instructors: All instructors are subject matter experts in the course field.

Certificate Courses: Current dates are listed below. Note: *All course offerings are subject to change.*

Professional Certificate in Construction Project Management (Complete 5 courses)					
Course Name	Course #	Spring I 2016 LD: 1/19	Spring II 2016 LD: 4/11	Summer 2016 LD: 6/27	Fall 2016 LD: 9/19
Construction Project Management	ENGR 47		4/4 - 6/10		9/12 - 11/20
Contract Documents & Construction Law	ENGR 31	1/11 - 3/20		6/20 - 8/26	
Planning and Scheduling	ENGR 32	1/11 - 3/20		6/20 - 8/26	
Building Green Buildings: The Contractor's Perspective	ENGR 38	1/11 - 3/20		6/20 - 8/26	
Construction Equipment and Methods	ENGR 43	1/11 - 3/20		6/20 - 8/26	

LD: Last day to register

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Construction Project Management: ENGR 0047

This course provides a framework for understanding the project manager's role, responsibilities, processes, and procedures. Students will learn the stages of the project, scheduling, feasibility, bidding and contracting, contracts, risk, claims, maintenance, warranties, and more.

Textbook required: Construction Project Management: A Complete Introduction, Alison Dykstra (Kirshner Publishing, 2011). ISBN-13: 978-0982703496

Contract Documents and Construction Law: ENGR 0031

Learn about common construction contract clauses and how to read a contract. Construction disputes, including differing site conditions, claims, delays and construction defects will be studied.

Textbook required: STP Unit 4 PM: Contract Documents, 2015 edition, Associated General Contractors. ISBN: 978-1-936006-54-0. Available in Hardcopy or Kindle.
(Available directly on [AGC website](#) if you don't purchase from bookstore.)

Planning and Scheduling: ENGR 0032

Learn to apply basic construction planning and scheduling skills. Prepare bar chart schedules and critical path schedules. Read complex project schedules and understand the basics of project management by scheduling. Employ schedule acceleration methods.

Textbook required: STP Unit 3 PM: Planning and Scheduling, 2015 edition, Associated General Contractors. ISBN: 978-1-936006-52-6. Available in Hardcopy or Kindle.
(Available directly on [AGC website](#) if you don't purchase from bookstore.)

Building Green Buildings: The Contractor's Perspective: ENGR 0038

The purpose of this course is to provide construction professionals with information that will help them to effectively bid, contract, build and close out green building projects. We will explore the green building process from the contractor's and subcontractor's point of view.

Textbook required: Contractors Guide to Green Building Construction: Management, Project Delivery, Documentation, and Risk Reduction, Thomas E. Glavinich (Wiley, 2008). ISBN: 978-0470056219

Construction Equipment and Methods: ENGR 0043

The purpose of this course is to give the student an overall and elementary understanding of construction equipment and selected construction methods. This includes selection, economy, and productivity of common construction equipment and construction procedures for site development and industrial, heavy and civil construction. The course will introduce students to civil construction plans, determining earthwork quantities, equipment economics and utilization, equipment production rates, fundamentals of earthmoving and excavating, loading and hauling equipment.

Textbooks required:

- Means Heavy Construction Handbook, Richard Ringwald (RSMMeans, 1993). ISBN: 978-0876292839 (Not stocked by SDSU bookstore.)
- Caterpillar Performance Handbook, 45th edition (Caterpillar Inc., 2015). Available free [online](#).

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Scores

To pass each course you must score 70% or higher.

Points	Score
100 - 90%	Excellent
89 - 80%	Above Average
79 - 70 %	Average
69 - 60 %	Marginal
Below 59%	Unsatisfactory
Incomplete	Did not complete

Certificate of Completion: At the completion of all required courses, you are eligible to receive a Certificate of Completion with the program title, your name, and the date of completion which can be framed and/or copied to include with your résumé when applying for jobs. Request your certificate by filling out the online request form at neverstoplearning.net/certificaterequest.