



– SAMPLE COURSE NOTES –

Construction Project Management

DR MICHAEL REHM

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COURSE PARTICIPANT GUIDE

CONSTRUCTION PROJECT MANAGEMENT

TWO-HOUR SHORT COURSE

LECTURER

[Dr Michael Rehm](#)

SUPPLEMENTAL COURSE NOTES

None

PIAZZA Q&A FORUM PAGE

http://piazza.com/online_short_courses/other/buildingconstruction

PIAZZA 'CLASS ACCESS CODE'

XXXXXXXXXXXXXXXX

ADDITIONAL COURSE REQUIREMENTS

FINANCIAL CALCULATOR

- None

SOFTWARE APPLICATION(S)



- None



ACCESSING YOUR COURSE'S VIDEO LECTURES

- [Log in](#) to your user account.
- Click on the 'My Courses' tab in the main menu.
- Navigate to 'Building Construction' and then click on 'Construction Project Management'. This will bring you to the course page containing all of the course's lecture videos.
- The lectures are presented in the recommended viewing order.

COMPLETING YOUR SHORT COURSE

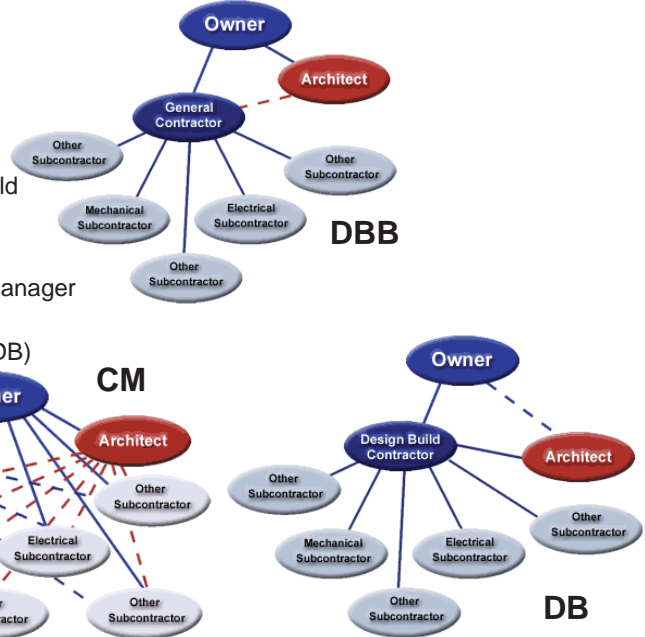
- Watch the lecture videos in their presented order and be sure to view each video in its entirety.
- When prompted at the start of each video, enter your name and email address then click on the button to "Watch Video and Take Quiz". Viewing data is only transmitted when you attempt a quiz.
- Attempt all the questions contained in the embedded quiz at the end of each lecture video. This information is used to confirm your participation in the short course.
- Based on the quiz report data, we will invite you by email to sit your course's comprehensive test shortly after you've made your way through all of the course's lectures.
- IF you invested in the optional [ProctorU](#) online proctoring service you will be emailed instructions on how to schedule your online test with ProctorU.
- Otherwise you'll be provided a link to sit your comprehensive test without a proctor.
- Upon completing your online test you will automatically be issued your certificate.
- You have 1-year from enrolment to complete your short course.
- Please [contact us](#) if you have any questions.

9.1	Project Delivery	PROP 281: Building Construction Overview	Dr Michael Rehm
<ul style="list-style-type: none"> • Who's who? <ul style="list-style-type: none"> – Owner <ul style="list-style-type: none"> • Instigating party behind the creation of the project • Can be public or private • End user vs. Developer – Architect-Engineer <ul style="list-style-type: none"> • Design professional charged with designing and producing the CDs • Civil/structural, geotech, MEP • Typ. third party but can be part of owner (in-house) or building team – General (Prime) Contractor <ul style="list-style-type: none"> • The firm in contract with the owner for construction of the project • Majority, or all, of actual construction work typ. subcontracted out 			
			
			

9.1	Project Delivery	PROP 281: Building Construction Overview	Dr Michael Rehm
<ul style="list-style-type: none"> • Who's who? <ul style="list-style-type: none"> – Construction Manager <ul style="list-style-type: none"> • Professional rep of owner • Manages design and construction to achieve max quality at min cost • Can serve as project manager or operate parallel to GC's PM – Project Manager <ul style="list-style-type: none"> • Organizes, plans, schedules, and controls the field work (construction) • Responsible for getting project completed on-time and on-budget • Typ. member of construction firm's upper management • One step above superintendent → foremen → laborers 			
			
			

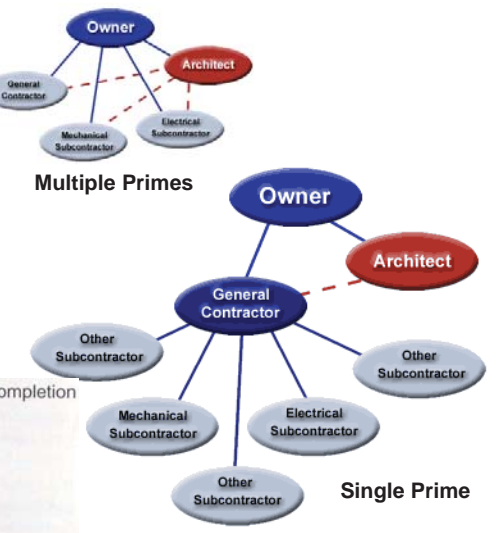
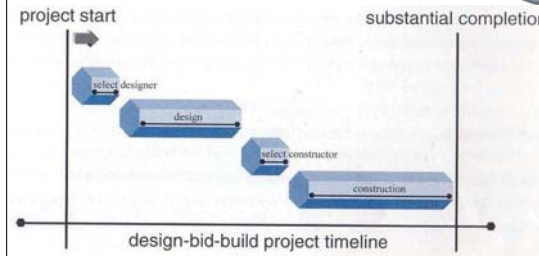
Traditional and Mainstream Alternatives

- Traditional
 - Design-Bid-Build (DBB)
- Alternatives
 - Construction Manager (CMR/CMA)
 - Design-Build (DB)



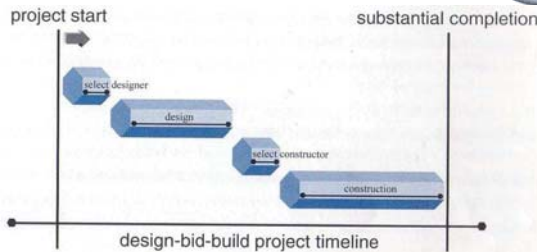
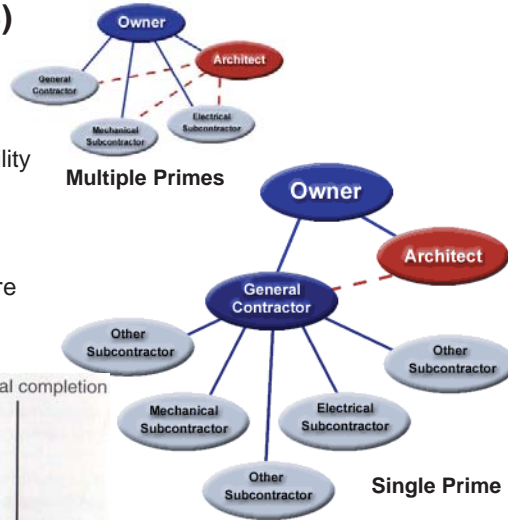
Design-Bid-Build (DBB)

- Traditional Approach
- Architect prepares design and construction documents which describe work in detail
- Architect is responsible to keep project on schedule and budget
- Contractor(s) bid on work
- Contractor(s) build the project
- Can be single or multiple primes



• Design-Bid-Build (DBB)

- Advantages
 - Traditional, proven approach
 - Single point of responsibility for construction
 - Competition due to open bid process
 - Owners tend to have more control over end product



• Design-Bid-Build (DBB)

- Disadvantages
 - Process is time-consuming, all design must be completed prior to bidding
 - Designers tend to have limited skill and experience in terms of holding budgets/schedules
 - Owner faces exposure to contractor claims over design and constructability issues
 - Relationships tend to be more adversarial than cooperative partnerships
 - Absence of contractor input into design can result in less effective, constructible design

