

Credit(s) earned on completion of this course will be reported to American Institute of Architects (AIA) Continuing Education Session (CES) for AIA members.

Certificates of Completion for both AIA members and non-AIA members are available upon request. This course is registered with AIA CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.

Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

AIA Continuing Education Provider

Course Description

Design Project Management

This class will focus on basic effective fundamental procedures for managing the project design process.

Topics include how to understand and administer the design process, how to interview, select and hire a design consultant, how to get the best from your architect/engineer, how to work and communicate with your campus client, effective communication strategies, what to look for in design reviews, and the importance of program and budget conformance.

Review successful processes for value engineering, effective team management, communication, and basic project manager skills.

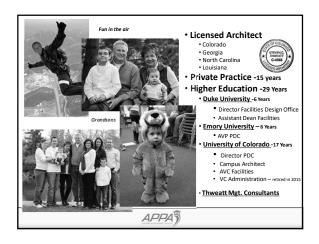
Learning Objectives

- 1. Lean the basic fundamental procedures for managing project designs.
- 2. Learn how to understand and administer the design process.
- 3. Learn how to get the best architect/engineer.
- 4. Learn how to interview, select and hire a design consultant.

Continuing Education Provider

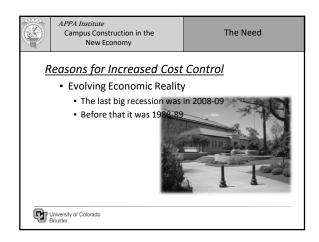
This concludes The American Institute of Architects Continuing Education Systems Course

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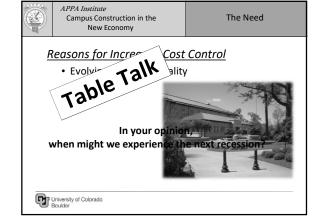




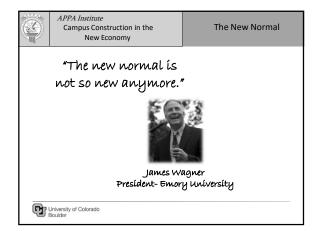




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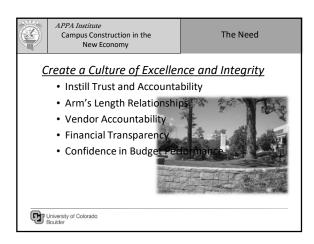


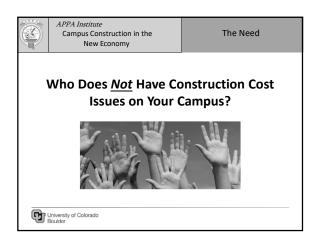




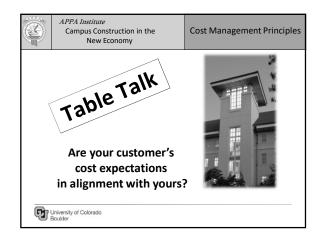




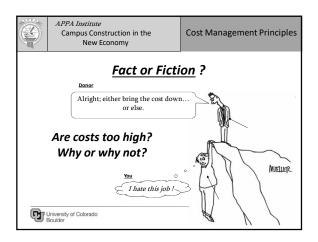




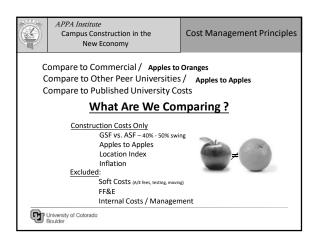




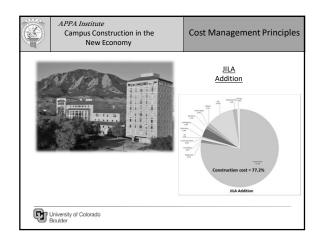




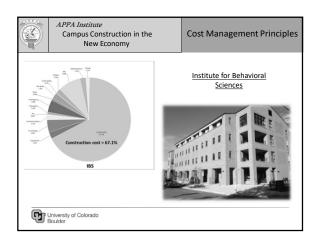


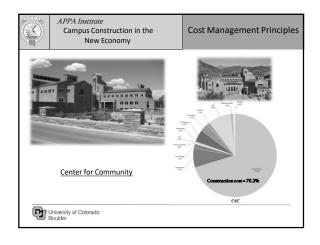




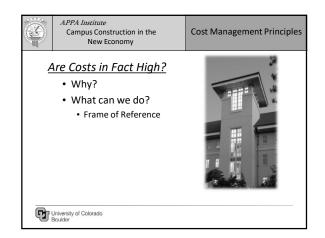






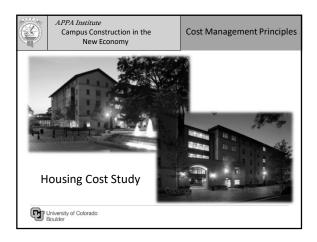






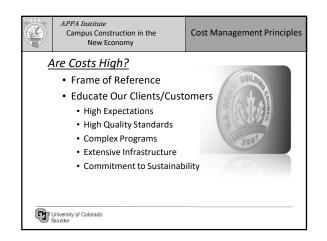


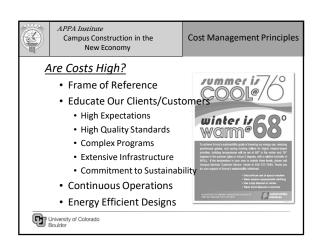
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APPA Institute Campus Construction in the New Economy		Cost Management Principles					
School	ProjectName	Construction Cost / SF	# Beds	Construction Cost/Bed	Tot Proj Cost/Be		
Prince ton University	Butler Dormitory Complex	\$572.51	288	\$238, 163	\$305,23		
Princeton University	Ellipse Dorm	\$385.07	222	\$139,659	\$161,03		
Stan ford University	Green Dormitory	\$365.96	47	\$214,286	n/a		
Duke University	Bell Tower Residence Hall	\$294.88	138	\$94,068	\$110,76		
Rice University	Weiss College	\$292.70	230	\$94,120	\$116,84		
Dartmouth College	NOM Central Residence Hall	\$271.46	299	\$94,809	\$109,77		
Emory	Turman	\$270.00	133	\$89,604	\$112,06		
Emory	Few & Evans	\$265.00	296	\$99,518	\$123,31		
Dartmouth College	NOM East Residence Hall	\$256.54	299	\$94,809	\$113,50		
Rice University	Martell College	\$251.32	230	\$92,455	\$117,47		
Johns Hopkins University	Charles Commons	\$241.94	618	\$107,807	\$134,45		
Northwestern University	Benjamin W. Silvka Residential College	\$237.14	141	\$76,418	\$93,440		
Washington University in St. Louis		\$236.91	172	\$63,395	\$73,503		
Emory	Freshman 4	\$235.00	355	\$82,208	\$107,66		
Emory	East Village - Oxford Campus	\$210.00	350	\$64,949	\$81,429		
	Average	\$292.43		\$109,751	\$125,75		





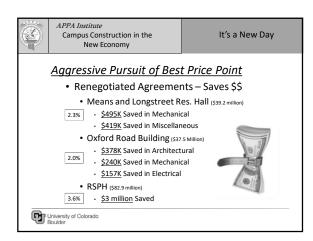




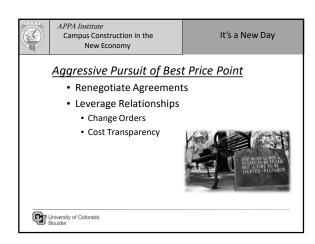


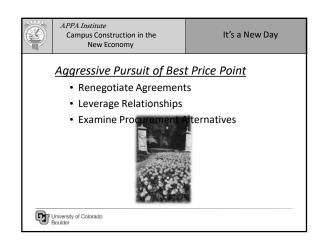




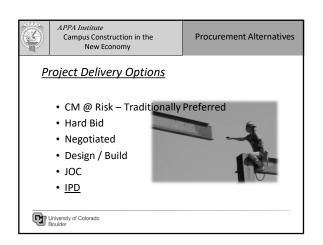


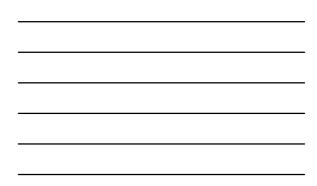




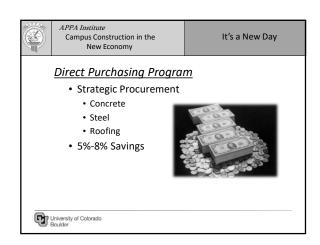






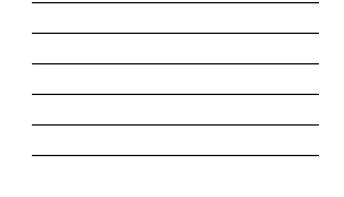


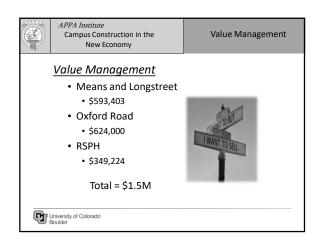


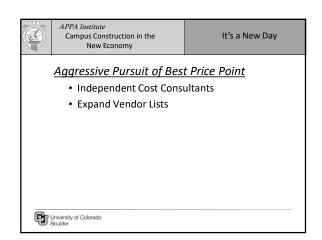


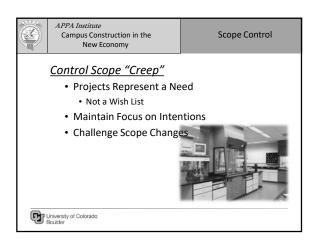
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	APPA Institute Campus Construction in the New Economy	It's a New Day
	Aggressive Pursuit of Bes	<u>t Price Point</u>
	 Renegotiate Agreement 	S
	 Leverage Relationships 	
	 Examine Procurement A 	lternatives
	 Direct Purchasing 	
	 Pre-establish Design Fee 	es
	 Owner Controlled Insuration 	ance Program
	 Value Management vs. 	VE
G	University of Colorado Boulder	

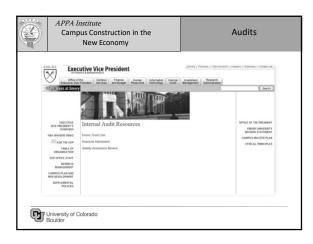




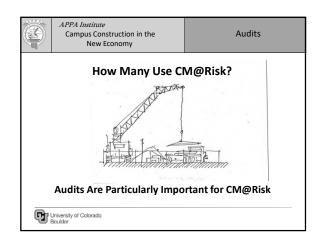




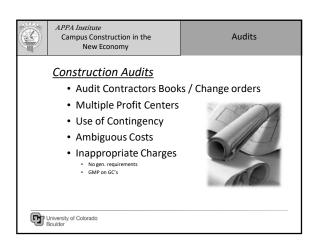


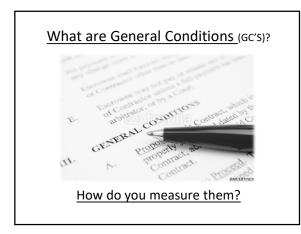






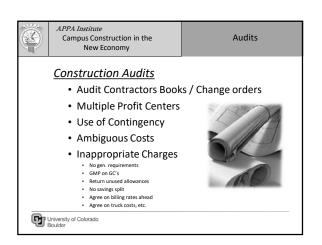




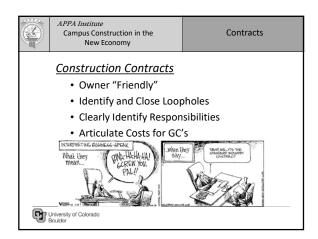


udit GC's	Ps	ychology sciplinary	and Studies	Rollins	School	of Public	Health	Science F Bldg	esearch
		Aug./Mo.	Total		Avg/Mo.	Construction Goals		Are / Mr.	Total Greatmation
1.Sull/Penomell									
Field	\$712,625	\$33,54	- 50	\$547,422	\$17, 907	50	51,221,5/8	\$20,528	55
Corporate Office	\$497,098 \$71,936	\$36,04 \$3,42	50	51,348,339	\$41,093 \$1,59	50	5412,4xx	536,476 532,275	50 50
Salat vOllege	519,94	26,92		5.362.69	54.24		325,25	512,991	
Third Party Survey, Brights	ar 575,000	\$3,57	50	\$2,711	5243	50	54,000	51.9	50
2. Daily, Weakly, Final Cleanup	9	9	<u> </u>	\$ 932,998	54,218	50	5832,064	\$13,74	-
3. Dampster Rental	50	9	<u> </u>	\$ 290, 791	55,962	50	93	5	
4. Scallolding	50	. 54		5	52		50	54	
5. Office TrailerRental	50	5	· ·	540.021	51,526	50	542,372	\$1,926	52
5. Employee Vehicle									
Imployee Vehicles Number of Vehicles	541,000	\$2,571	50	5,4,454	52.55	50	540,850	51.671	50
	vuhich:		\$796			\$1,967	20		\$1,225
7. Vertide Hoisting	50	9	· ·	\$29(,25)	\$5,977	20	24,61	SIL74	
8. Neprobation & Printing	9,40	547	5	58,99	54,798		546,057	54, 194	20
9. Computer Rental/Purchase	\$12,960	51.52	50	\$112,200	51.50	54	\$20,943	54.194	50
10. Insurance and Bonds									
Buildes Risk Payment/ Parl or manae	\$12,544 \$204,920	52,95	50	\$96,963	\$1,811	50	\$12,300 \$107,205	\$1,40	50
General Subskiv	5424,525	31,75 510,98		\$444,348 \$25,715	\$11,863 52,996	50	5247,198	\$15,328 \$11,25	50
			~						
11. Other General Condit	\$100,900	55,249	50	\$482,978	511,461	50	396,858	546,822	55
Total Project Budget			\$35,020,000			588,642,952			563,300,000
Totals	52,090,544	38,91	50	\$3,940,755	\$122,524	50	54,751,456	\$225,157	50
					Millio		\$88		_

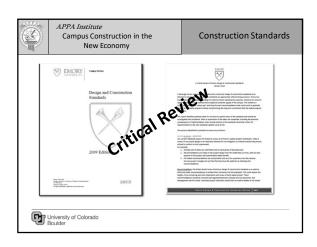




Emory Construction Audit Status report					
Project	Year Project Completed	Construction Amount	Gross Savings	Audit Costs	Net Savings
School of Medicine	2007	\$43,685,965	\$90,000	\$35,000	\$55,000
Goizueta Business School Addition	2005	\$21,232,134	\$88,399	\$59,000	\$29,399
Psychology	2009	\$29,426,025	\$0	\$26,400	-\$26,400
Emory Conference Center Hotel Exp.	2009	\$21,530,000	\$0	\$9,293	-\$9,293
WSHCAB Renovation	2009	\$7,673,268	\$27,638	\$15,525	\$12,113
Yerkes Field Station	2009	\$8,270,610	\$32,731	\$18,750	\$13,981
Atwood AHU & Piping	2009	\$6,400,000	\$21,000	\$0	\$21,000
Oxford Road Building	2010	\$29,800,000	\$125,570	\$54,000	\$71.570
Rollins School of Public Health Exp.	2010	\$65,700,688	\$307,063	\$37,000	\$270,063
Total Savings		\$233,718,690	\$692,401	\$254,968	\$437,434
	R				









21-4p-10	A Critical Review of Emory Design & Construction Standards	
A review of the current Emory Diedgn & Construction Standards produ Nas abeed aurmenties the outcomes of the major areas of recommen		
baue Seneral	Rec on manufation	Outcame
FM Gibbal reviews are some imeasined licken and unchallenged	Plastes for noneepstones for more efficiency and chattering / M Glubel economications had do not add so ficked value	We are actively expanding PM Gibbal with each project analogue storing hear nanormanisations with the inter of areasing the base value to Criticy before replacementing that motivermentations. We have motivat his mean-process to be more effected and have an on the response process.
Construction lights are on all night	Repare the construction lights to be turned off all right after work hours	This requirement has been added to the standards.
Amount of space dedicated to support functions in newbolidings, i.e. callodial, maintenance, security, Neicon, etc. Is burdensome	Ecomote the actual need and amount for dedicated service space and consider come sharing of spaces, this will require broad decase/on	This mouse will be decounted on a propert by project brain with the actual moust requiring particulars before implementation, rather than part default to an automation assignment of spaces.
The use of expensive security screens on residence hads is expensive	Explorationer cost alternatives	The exploration of alternative acrean materials reaction in a conclusion had the design would increases long been manipulation cack and have the polarital to signate the entering another signality of the backlenge for the resistance tests and design to be parameted for the .
leading neuronaliticand products for administra	Clammate DHSD responsed leading of new products and rely on manufacturer's partitionities	DHSD has agreed to electrole this requirement with the confirmation of appropria manufacturers conflication for the exclusion of advector in the mesufacturing of their products.
Bull in welk of malcane required	Làn Tax más	While between previously deallowed, his USGSC has now agreed to allow LCCC credits for his use of floor mate.
fums bood lice woodly and at changes are lighter than moreovery	Explorenreductions in the lines valuedly and air change requirements for Lones North, this will explore decivation with EPEG	We have a worked compositivity with DHGD to restance the art chargest per boor in deallow 10 at charges down to 3 and locomation has used of high-performance tions boods, where approprish. This charges have more lack on a performance 31.2 mBoo in capital code and \$25.300 years average in energy code in the new DBCR productions.
Dev alte noams neçules sinti en drommeriañ constitues	Nalac anticomental regularization alcodor machine norma	Taken here a some code responsession från i here in basen rekened mendly, si dur her konstrukt statisstatisk om fra held. There an indexed meg personeristisk. Wa en state an examine here affekte of framewhere the menge of allowable workstatementid construction. In the matchine memory work is in use on extremation here some firm extractions. For the person here is used with the CS responsession for an errors will keen tand coal e effective strukture.
Turning		
Propinsiany and sole acurosine-quinaments on many planting focurs and sculptimed	Braden alterativ pratect ins	The acceptede manufacturers for these products have been expended.
Sactimbery containment implaiane required for televatory vacuum systems	coloros industrian containment procedures and eliminatic second ary impa-	This is a secondary containment protocol that supplements current technician tab procedures. We should not change this is the Cardingenic blue, but we are in discussion with DMSD is see if the negativement gain to be wated to obser blue.
bace hechanica/	Recommendation	Oulcane
Topf enteremental controls in the design of mechanical systems	Natan alternative nanges of desages parameters	After a great data of nearesth and biccustom on the tight, we needed the constants that any changes to the acceleration parameters could result to nearesca accegance (completes) also all diplication of a data guidense was been voter. This could be all to a personality in the new youthers are been voter. This could be all to a personality in the new youthers are been voter. This could be all be approximate in the new youthers are findly a provide parameter of the second secon
All standourscal rooms are to be averaged by elevators	Om other adversative building designs is ediminate the meet for elevator access is at	this requirement will be nested to need "The need for elevators serving mechanical rooms after the discussed with Clemotus Services Evaneement over th



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	Room Name	Requirement	Notes
Sustainability Requirements (Basic Program Requirements)			
	Changing Rooms (USGBC LEED Credit 4.2)	0.5% of FTE	Single Occupancy ADA compliant shower and changing room.
	Bicycle Storage Rooms (USBGBC LEED Credit 4.2)	0.5% of FTF	Every project must consider covered ancyce's tarage. Emory is conscientiously locating these spaces through out the campus and a new project may or not be required to have this space depending on
	Recyclying Room (Section 01 78 23)	100 sq. ft. for 100,000 sq. ft. bdg. On e recycling room per floor is required for residential projects.	10 x10 ft, close to loading dock.
Universal Design Basic Program			
	Lactation Rooms	Single occupant ADA compliant room	Except for residential projects. Typically located nea a women's restroom. Except for residential projects. Can be used as a
	Single Occupancy' Family Restroom	Unisex ADA compliant restroom	child changing room.
Building Services, Custodial & Building Maintenance			
	Janitorial Rooms	80 sq. ft. per Floor	min.8ftx10ft.
	Custod ia I Support Room	Up to 50,000 s q. ft. = 10' x 10' Between 50,000 & 10,000 s q. ft. = 15'x15' Between 100,000 & 200,000 s q. ft. = 20' x20' Over 200,000 s q. ft. = 25' x25'	Come nient access to the loading dock. Lockable double doors are preferred.
	Custodial Staff Support Room	Up to 50,000 s q, ft. = 10° x 10° Between 50,000 & 10,000 s q, ft. = 15°x15° Between 100,000 & 200,000 s q, ft. = 20° x 20° Over 200,000 s q, ft. = 25° x 25°	
	Building Maintenance Shop	Over 200,000 sq. ft. = 25 x 25 Up to 50,000 sq. ft. = 10' x 10' Between 50,000 & 10,000 sq. ft. = 15'x15' Between 100,000 & 200,000 sq. ft. = 20' x 20' Over 200,000 sq. ft. = 25' x 25'	

Changing Room (Bicycle riders)	50 SF
Bicycle Storage	100 SF
Recycling	100 SF
Lactation Room	30 SF
Unisex Restroom	30 SF
Custodial Closet	450 SF (80 per floor X 5 floors)
Custodial Support	225 SF
Custodial Staff	200 SF
Building Maintenance Shop	625 SF
Building Maintenance Office	625 SF
Attic Stock Storage	100 SF
Communications Room (Netcom)	2200 SF (110 SF per 10,000 SF floor area
Building Security Room (access services)	80 SF
	4,815 SF

Total area required = 4,815 SF @ \$200 / SF = **<u>\$963,000</u>**

