

# AACE International University Outreach

AACE Rising Professionals  
Committee (2020)

[web.aacei.org](http://web.aacei.org)



# AACE International – University Outreach

## Overview of Careers in Project Controls

[web.aacei.org](http://web.aacei.org)

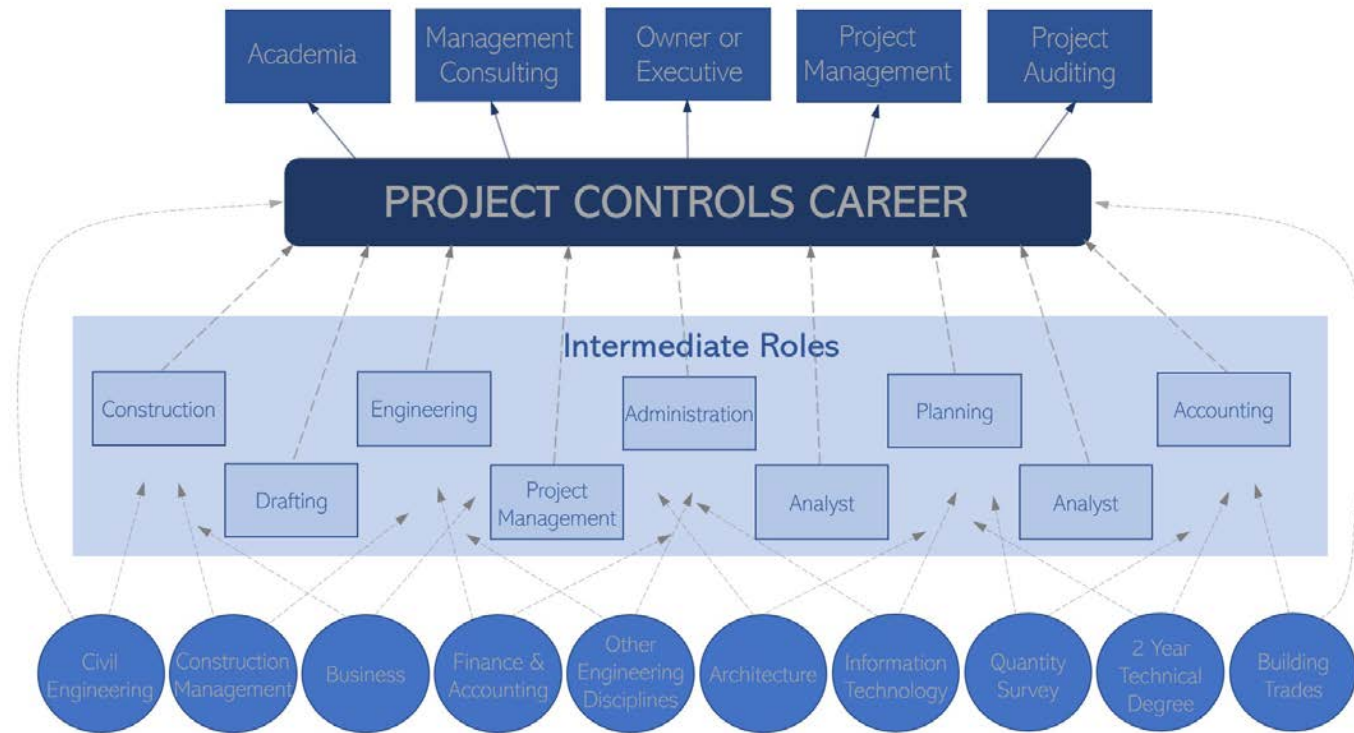
## Project Controls

- Project Controls is the practice of keeping projects on-track, on-time and within budget
- Control of cost, risk, quality, communication, time, changes, procurement, and human resources
- Project Controls professionals can be responsible for projects, programs, or portfolios that contribute to an organization's bottom-line
- Project Controls practitioners serve to mitigate business risk



## The “Accidental” Profession

- Project Controls professionals emerge from varying backgrounds and experiences and because it is often a late-entry profession, many students are unaware of it as a career choice

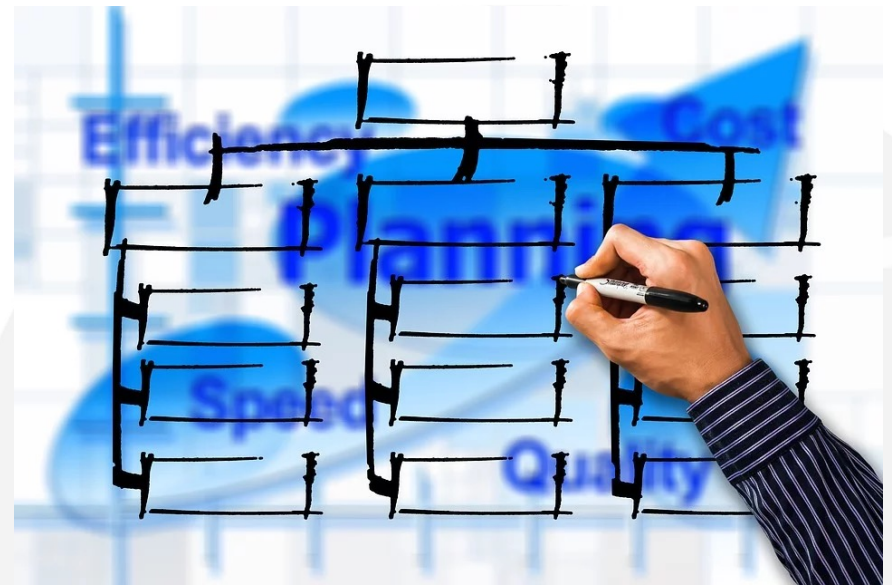


## Project Controls Disciplines

- Cost Engineering
- Planning & Scheduling
- Cost Estimating
- Earned Value Management
- Claims & Dispute Resolution
- Decision & Risk Management
- General Project Management

## Cost Engineering

- Cost Engineering is the application of scientific principles and techniques to problems of estimation; cost control; business planning and management science; profitability analysis; project management; and planning and scheduling.



Source: AACE TCM Framework



## Planning & Scheduling

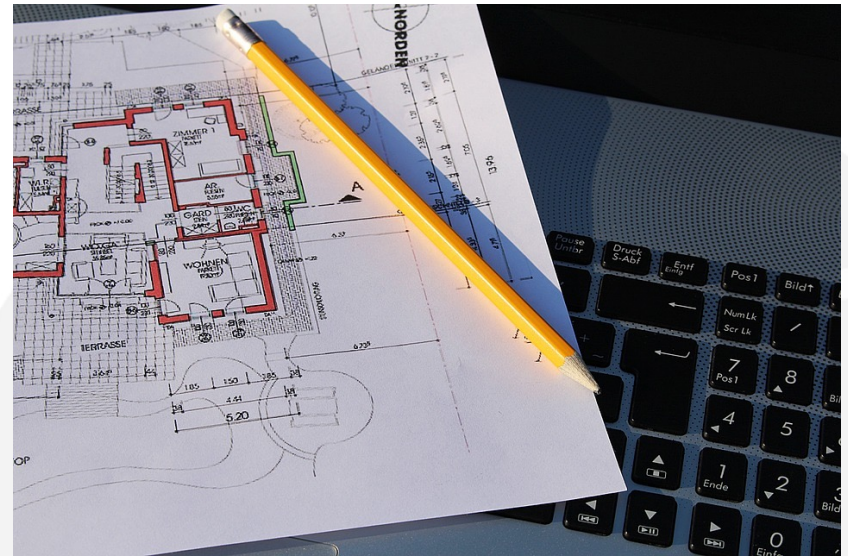
- The Planning and Scheduling Professional's duties are to assist the project management team in developing, monitoring, and updating an integrated project plan and schedule so that the project may be executed in the most efficient manner possible.



Source: AACE Recommended Practice 14R-90

## Cost Estimating

- Project cost estimators predict the cost of a project for a defined scope, to be completed at a defined location and point of time in the future. Cost estimators assist in the economic evaluation of potential projects by supporting the development of project budgets, project resource requirements, and value engineering.



Source: AACE Recommended Practice 46R-11



## Earned Value Management

- Earned Value Management (EVM) integrates scope, schedule, and cost along with budget and performance measurement within a project framework. It is a method for project progress measurement analysis and control that combines work scope, schedule, a resource evaluation to enable objective comparison of the planned schedule of the project to the work completed along with its actual costs.



Source: AACE Recommended Practice 81R-13

## Claims & Dispute Resolution

- Cost and dispute resolution (CDR) professionals are involved in the making or reviewing of claims on projects. This engagement may range from preparation to analysis and resolution of claims. CDR professionals are actively involved in the management, mitigation, and resolution of project disputes.



## Decision & Risk Management

- Decision and risk management (DRM) requires knowledge ranging from analytical to socio/psychological to management. DRM is practiced within the context of all the processes and practices of total cost management (TCM). All TCM practices have elements of uncertainty and the need to make some decisions, and interfaces with all the associated disciplines working in a TCM process.



Source: AACE Recommended Practice 71R-12

## General Project Management

- Project management professionals are responsible for the health and maintenance of a project's plan and execution. Project management positions employ a wholistic approach of all project controls disciplines to deliver successful projects that complete on-time and on-budget.

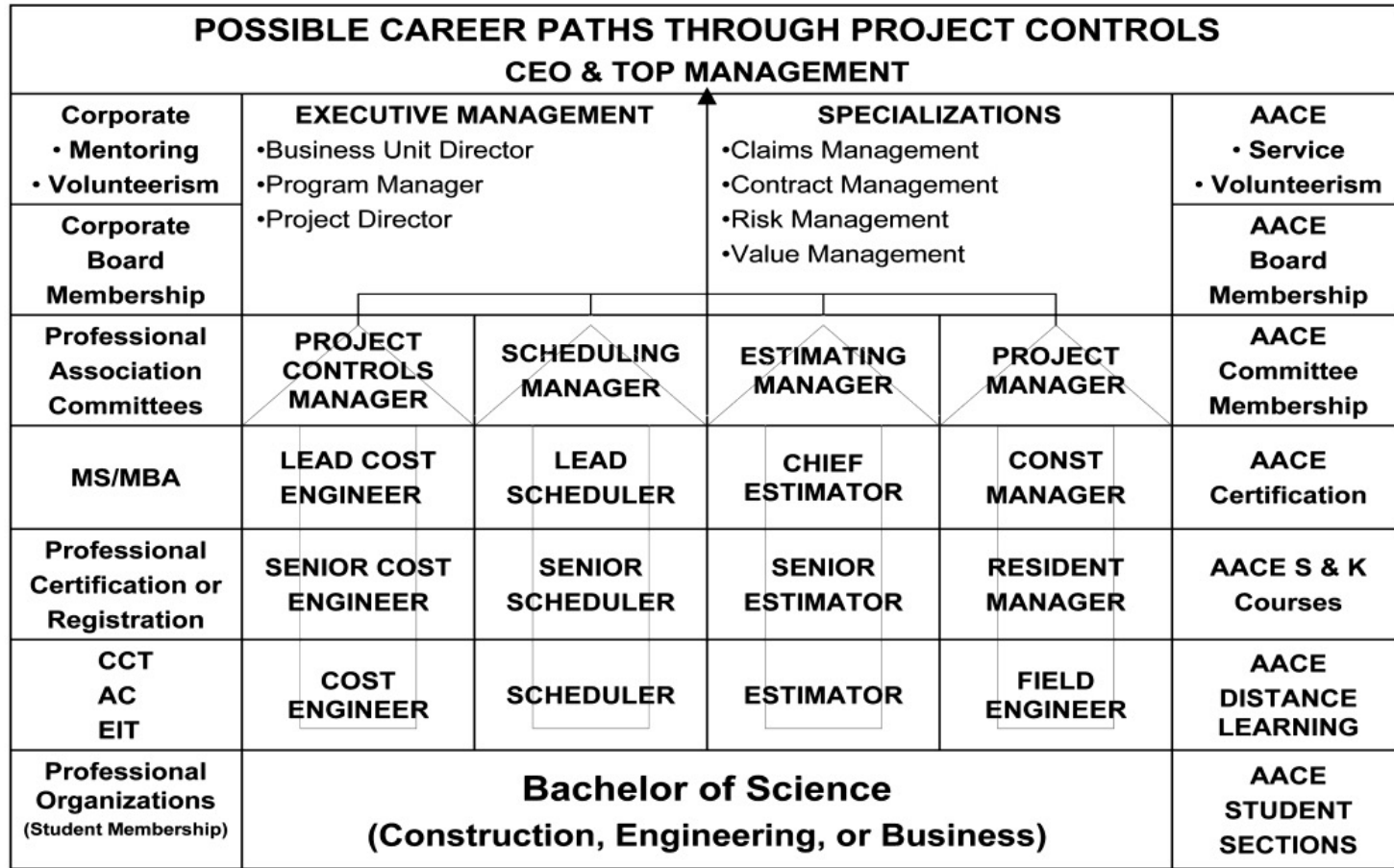


## Common Traits of Project Controls Professionals

- Aptitude in Engineering, Economics, Law, Statistics and Probability, Contracts, Logistics and Optimization, Finance
- Excellent organizational skills
- Ability to communicate technical topics in written and oral formats
- Highly motivated and ambitious
- Analytical thinkers who like to solve complex problems
- Team builders with interpersonal skills
- Self-regulation and empathy



## Common Career Paths



Source: Randy R. Rapp, Enhancing Professionalism in Construction Project Controls, AAACE International (AAACE), Morgantown, West Virginia

# AACE International – University Outreach

## Benefits of a Career in Project Controls

[web.aacei.org](http://web.aacei.org)

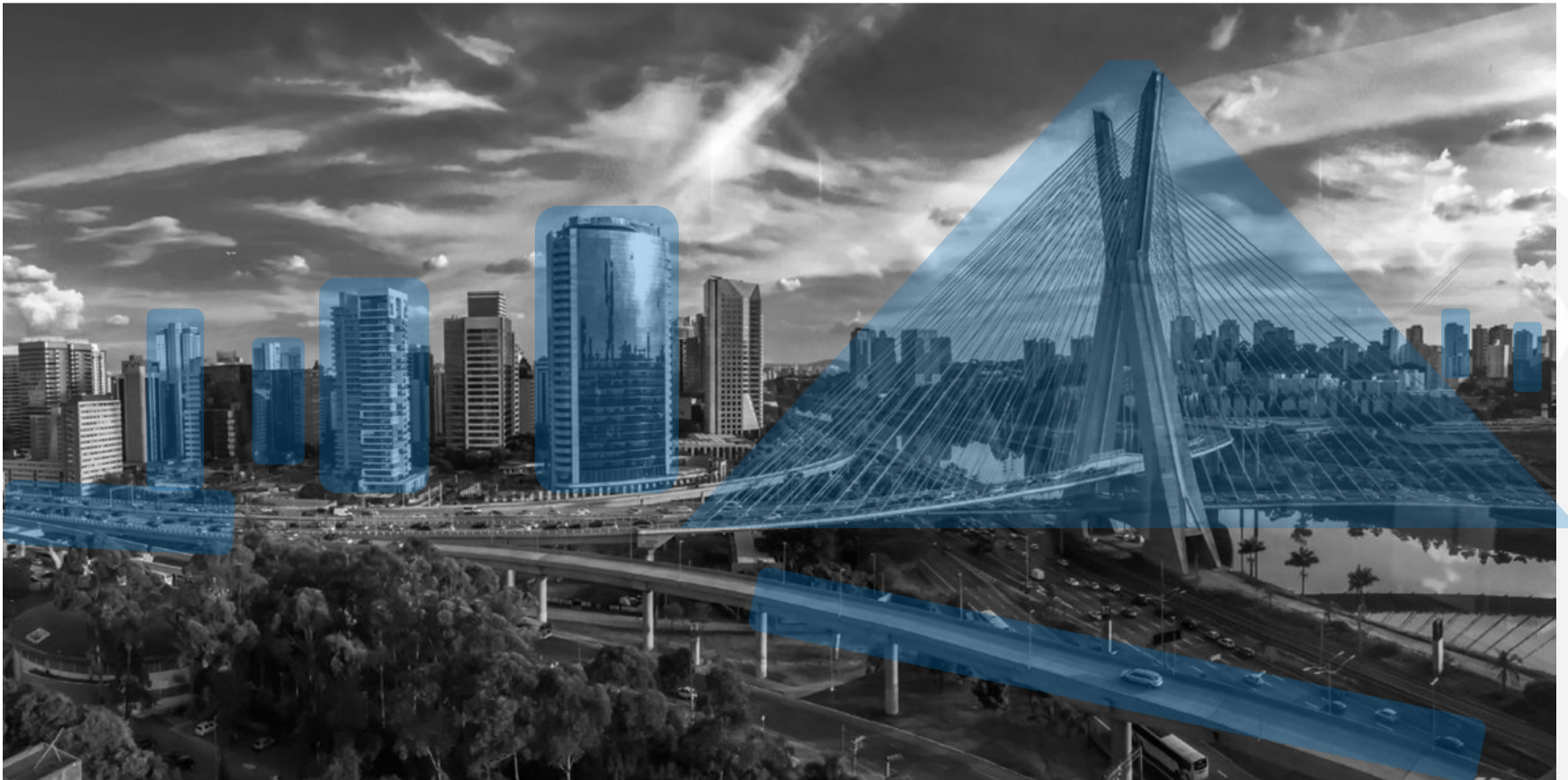
## Benefits at a Glance

- Rewarding for analytical problem solvers
- Not stuck behind a desk - mix of office and project field cultures
- Work on multiple projects at one time
- Exposure to a variety of projects and project types
- Work at the intersection of the build environment and data analytics

## Benefits at a Glance (continued)

- Transferable skills from industry to industry
- Opportunity for significant influence early in your career
- Be a virtual builder of time, money, and space
- Potentially lower stress levels than tradition project management roles
- Job security and salary

## Your Legacy Footprint





## Average Salary of Project Controls Disciplines





# AACE International – University Outreach

## Introduction to AACE

[web.aacei.org](http://web.aacei.org)



AACE International is the Association for the Advancement of Cost Engineering.

With 7,000 members in 100 countries, AACE International has been serving the total cost management community since 1956. We are committed to the constructive exchange of ideas between members, development of technical guidance and quality education and recognition of subject matter experts. Our members work in a variety of disciplines and across all industries.

## OUR MISSION

AACE members drive projects to complete on time, on cost, and meet investment and operational goals. We arm our members with the technical tools and expertise to support successful projects and programs.



## OUR VISION

To be the gathering place and source of thought leadership for professionals who drive successful project and program delivery.



## OUR VALUES

For project and cost controls professionals who are seeking to learn and demonstrate the expertise to ensure successful project outcomes, AACE International is the only source for superior technical resources and connection to industry thought leaders.

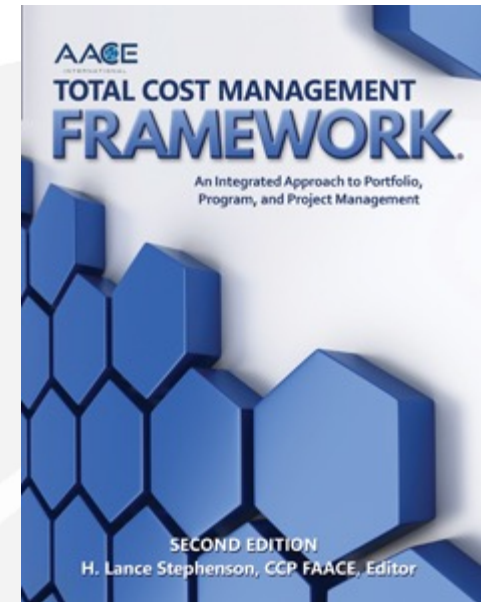


## History

- Founded in 1956 by 59 cost estimators and cost engineers at the University of New Hampshire
- Charter member of the Council of Engineering and Scientific Specialty Boards
- Over 7,000 members around the world across over 100 different countries
- Headquartered in Morgantown, West Virginia.

## Total Cost Management (TCM)

- TCM is a systematic approach to managing cost throughout the life cycle of any enterprise, program, facility, project, product, or service.
- The TCM Framework<sup>®</sup>: An Integrated Approach to Portfolio, Program and Project Management is a structured, annotated process map that for the first time explains each practice area of the cost engineering field in the context of its relationship to the other practice areas including allied professions





## Benefits of Membership

- Access to industry leading technical publications, recommended practices, and the TCM framework
- Networking – conferences, local sections, online communities, and special interest groups
- Professional development – continuing education seminars, AACCE sponsored training, AACCE certification and study guides
- Career Resources and Mentoring
- On average, AACCE members earn \$12,500 more annually than non-members (Source – AACCE Salary Survey)

## Certifications

- Technician Level Certifications
  - Certified Cost Technician (CCT)
  - Certified Scheduling Technician (CST)
- Professional Level Certifications
  - Certified Cost Professional (CCP)
  - Certified Estimating Professional (CEP)
  - Earned Value Professional (EVP)
  - Planning & Scheduling Professional (PSP)
- Expertise Level Certifications
  - Certified Forensic Claims Consultant (CFCC)
  - Decision & Risk Management Professional (DRMP)



## Student Membership

- Student membership is open to individuals enrolled as a full-time undergraduate student (associate's or bachelor's degree) (minimum 12 hours/semester) in a college or university. Full-time master's degree graduate students\* are also eligible for the student membership rate.

Student Membership (all dues are non-refundable)	
Quarter <small>based upon the date you join</small>	Dues
Jan-Sep	\$65.00
Oct-Dec*	\$65.00*
<small>*13-15 month membership      \$0 for current year  + \$65 for next year  (4<sup>th</sup> quarter dues are subject to change)</small>	

## Student Membership



### Membership Benefit Comparison



	NON-MEMBER	STUDENT MEMBER \$65/year	REGULAR MEMBER \$215/year	PUBLIC PARTNER \$1500/year minimum	CORPORATE MEMBER \$1900/year minimum	CORPORATE PARTNER \$2500/year minimum
Source Magazine						
Cost Engineering Journal						
Discounts: Certification						
Discounts: Events						
Discounts: Products						
Discounts: Publications						
Discounts: Seminars						
Recommended Practices (RPs)						
Total Cost Management Framework						
Virtual Library						
Business AdvantEdge						
Association Leadership Opportunities						
Voting Privileges						
Professional Practice Guides (PPGs)						
Exclusive Exhibit & Sponsorship Opportunities						Extra benefit with company buy-in
Exclusive Webinars						Extra benefit with company buy-in
Seminar-in-a-Box						Extra benefit with company buy-in

## Women in Project Controls Committee

- AAACE's Women in Project Controls Committee (WPC) is open to any/all members interested in helping women advance their careers in the total cost management field.
- Holds WPC Presents webinars that are free to members and non-members.
- Features WPC members in the Source magazine.
- Meetings are held virtually via teleconference.





## Rising Professionals Committee

- AAACE's Rising Professionals Committee (RPC) aims to provide an engaged community of up and coming project controls professionals to develop and influence the project controls industry through practice, awareness, and innovation.
- Goals:
  - Serve as a resource for rising professionals in the project controls industry and within AAACE.
  - Attract younger membership into AAACE.
  - Influence the modernization of AAACE.
- Mission includes mentoring, university outreach, and content production.



## AACE Membership Employers





# Questions?

[web.aacei.org](http://web.aacei.org)