



Project & Contract Management

## The Advanced Certificate in Cost Engineering (ACCE)

## Course Introduction

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Any engineering project must be not only physically realizable but also economically affordable. Understanding and applying cost principles to engineering have never been more important. Beyond function and performance, solutions must also be viable economically. Design decisions affect limited resources such as time, material, labor, capital, and natural resources, not only initially (during conceptual design) but also through the remaining phases of the life cycle (e.g., detailed design, manufacture and distribution, service, retirement and disposal) This training course is designed to help participants gain valuable insights and skills needed to estimate costs accurately.

### **Business case analysis and evaluation**

This course will focus on topics such as cost estimating methods and challenges, business case analysis and evaluation, and project management issues.

## Target Audience

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- Project Manager
- Business Administrator
- Marketing Coordinator
- Account Executive
- Chief Operating Officer
- Operations Manager
- Executive Administrative
- Risk Manager
- Program Manager
- Business Analyst
- Quality Control Coordinator
- Assistant Manager
- Team Leader
- Senior Supervisors
- Researcher

- Entrepreneur
- Management Consultant
- Public Relations Director

## Learning Objectives

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- Gain a comprehensive understanding of the different types of cost concepts and designs
- Identify and apply the various methods used to gauge cost estimates
- Understand the time value of money over a project term
- Evaluate Projects with the Benefit–Cost Ratio Method
- Understand the importance of sensitivity analysis, break even, and profit territory
- Know the importance of risk and how to manage associated risks
- Learn about planning your capital budget and the key factors in the decision-making process.

## Course Outline

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- **Day 01**

- Cost Concepts, Design and Estimating**

- Overview: Types of Cost Concepts and Designs
    - Eight cost estimating methods
    - Cost estimating problem areas
    - Types of cost estimates
    - Case Studies: Cost estimation from a broad cross-section of the private and public sectors
    - Managing the cost and schedule estimation process

- **Day 02**

- Business Case Analysis/Evaluations**

- The transition from cost estimation to business case evaluations

- Time value of money and interest rate factors (Engineering Economics)
- Methods for comparing and evaluating alternatives

#### • Day 03

##### **Tax and depreciation considerations in business case analysis**

- Inflation and cost Indexes
- Managing investment evaluations
- Benefit–Cost Ratio Method
- Case Studies: Business case evaluations from a broad cross-section of the private and public sectors

#### • Day 04

##### **Intersections between Cost Estimation, Business Case Analysis, and Project Management**

- Cost estimation and project management

#### • Day 05

##### **Business case analysis and project management**

- Special topics
- Emerging factors in cost estimation, business case evaluation, and project management

## Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 5, 2025	May 9, 2025	5 days	4250.00 \$	UAE - Dubai
July 28, 2025	Aug. 1, 2025	5 days	4950.00 \$	South Africa - Cape Town
Oct. 27, 2025	Oct. 31, 2025	5 days	4250.00 \$	UAE - Abu Dhabi

