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بروجاكس للتدريب والتطوير  
Projacs Training and Development

# In cooperation with University of Washington – Construction Management Executive Program

بالتعاون مع جامعة واشنطن  
– البرنامج التنفيذي في ادارة التشييد

10 – 14 August 2020

Seattle / United States of America

A Member of:



PROJACS ACADEMY



ProjacsAcademy.com



## Introduction

The focus of this one-week technical program is on the latest developments and newest techniques for planning and managing the construction of projects. Projacs Academy has enlisted expertise from academia to discuss and demonstrate state-of-the-art techniques for construction management. Attendees will learn the latest methods for developing project requirements as well as managing the design and construction of major projects. The program addresses the newest technologies and strategies used for construction management. The Program will include a site visit to the University of Washington.

## Objectives

**By the end of this course practitioners shall learn to:**

1. To learn the latest trends in project planning and design management.
2. To learn about the latest trends in alternative project delivery methods and contract procurement strategies.
3. To learn about the latest trends in the use of technology for managing the design and construction of projects.
4. To examine alternative strategies for facilities services contract procurement and management.
5. To examine new trends in managing construction operations.

## Who Should Attend?

This program is structured to meet the educational need of professionals who have project design and construction responsibilities. The focus is from the perspective of government agencies or private companies that have project design and construction activities.

## Course Outline

### DAY 1:

- Morning welcome and outline of day's activities.
- PROJECT PLANNING
  - Long-Range Planning
  - Master Planning
  - Project Planning
- DESIGN MANAGEMENT
  - Managing Design Bid Build Projects
  - Managing Design-Build Projects
  - Managing Construction Manager at Risk Projects
- SECURITY PLANNING
  - Security Criteria
  - Security Systems

### DAY 2:

- Morning welcome and outline of day's activities.
- PROJECT DELIVERY SYSTEMS AND CONTRACT
- PROCUREMENT SYSTEMS
  - Project Delivery Systems
    - Traditional
    - Fast-Track
    - Design-Build
    - Agency Construction Manager
    - Construction Manager at Risk
  - Project Procurement Systems
    - Lump Sum
    - Unit Price
    - Cost Plus
    - Cost Plus with a Guaranteed Maximum Price
- ENVIRONMENTAL HEALTH AND SAFETY
  - Safety Programs
  - Accident Prevention Plans
  - Hazardous Materials Communication

### DAY 3:

- Morning welcome and outline of day's activities.
- JOB ORDER CONTRACTING
  - Benefits of Job Order Contracting

- Job Order Contracting Process
- CONSTRUCTION PROJECT MANAGEMENT TECHNIQUES
  - Procurement Processes
  - Construction Contract Administration
  - Construction Contract Closeout
- PROJECT COMMISSIONING
  - Selection of a Commissioning Agent
  - Planning
  - Execution

#### DAY 4:

- Morning welcome and outline of day's activities.
- VALUE ENGINEERING AND LIFE CYCLE COST ANALYSIS
  - Value Engineering Principles
  - Value Engineering Process
  - Life Cycle Cost Analysis
- QUALITY MANAGEMENT
  - Planning
  - Conformance Inspections
- SITE VISIT TO UNIVERSITY OF WASHINGTON

#### DAY 5:

- Morning welcome and outline of day's activities.
- MAXIMIZING THE BENEFITS OF BUILDING - INFORMATION MODELS
- NEW TRENDS IN CONSTRUCTION MANAGEMENT IN THE
- UNITED STATES
  - Partnering
  - Alternative Dispute Resolution Techniques
  - Private Public Partnerships
  - Integrated Project Delivery

## Training Method

- Pre-assessment
- Live group instruction
- Use of real-world examples, case studies and exercises
- Interactive participation and discussion
- Power point presentation, LCD and flip chart
- Group activities and tests
- Each participant receives a binder containing a copy of the presentation
- slides and handouts
- Post-assessment

## Program Support

This program is supported by interactive discussions, role-play, and case studies and highlight the techniques available to the participants.

## Schedule

**The course agenda will be as follows:**

- |                     |                  |
|---------------------|------------------|
| • Technical Session | 08.30-10.00 am   |
| • Coffee Break      | 10.00-10.15 am   |
| • Technical Session | 10.15-12.15 noon |
| • Coffee Break      | 12.15-12.45 pm   |
| • Technical Session | 12.45-02.30 pm   |
| • Course Ends       | 02.30 pm         |

## Course Fees\*

- **4,500USD**  
*\*VAT is Excluded If Applicable*

## مقدمة

يركز هذا البرنامج الفني على آخر التطورات وأحدث التقنيات لتخطيط وإدارة بناء المشاريع. وسيتعلم الحضور أحدث الأساليب لتطوير متطلبات المشروع فضلا عن إدارة وتصميم وبناء المشاريع الكبرى. ويتناول البرنامج أحدث التقنيات والاستراتيجيات المستخدمة لإدارة الإنشاءات. سيتضمن البرنامج زيارة إلى موقع جامعة واشنطن.

## أهداف البرنامج

في نهاية هذه الدورة المتدربين سوف يتمكن المتدربون من:

- معرفة أحدث الاتجاهات في مجال تخطيط المشاريع وإدارة التصميم.
- معرفة المزيد حول أحدث الاتجاهات في أساليب تنفيذ المشاريع البديلة واستراتيجيات الشراء والعقد.
- التعرف على أحدث الاتجاهات في مجال استخدام التكنولوجيا لإدارة تصميم وبناء المشاريع.
- دراسة الاستراتيجيات البديلة للشراء وعقد خدمات إدارة المرافق
- دراسة الاتجاهات الجديدة في إدارة عمليات البناء.

## الحضور

يهدف هذا البرنامج لتلبية الاحتياجات التعليمية للمهنيين الذين لديهم تصميم المشروعات والبناء. و سيتم التركيز علي كيفية ادارة المشروعات من وجهة نظر الجهات الحكومية أو الشركات الخاصة التي لديها أنشطة تصميم المشروعات والبناء.