



PROJACS ACADEMY
by egis

Successful Construction Project Administration - From Start to Completion – Certified Program

ادارة مشاريع التشييد والاشراف عليها من البدء حتى التسليم
بنجاح - معتمد عالمياً

01 – 05 January 2023

Cairo / Egypt

Introduction

Both the quality and economy of construction projects depends on the efficiency and skills of contractors and consultants. Following the proper procedures in the preparation of tendering documents and risk management is a very important step for the evaluation and selection of consultants to achieve high quality and keep projects within budget. Moreover, project delivery systems require a different method to ensure construction on time, within budget, and according to specifications. This five-day workshop presents tested procedures involved in the preparation of tendering documents, managing risks, evaluating and selecting construction contractors and consultants, as well as different project delivery systems for construction projects.

Objectives

- **Prepare** better tendering documents to reflect the stakeholders' objectives, assess the potential risks, and devise the tendering strategy to manage such risks
- **Conduct** the contract preparation and bidding to the contract award process with the knowledge of the relative responsibilities of each party involved
- **Pre-qualify** bidders using the qualifications suited to your project
- **Distinguish** among the types of bid calls and types of contracts
- **Employ** bonds and insurance more knowledgeably
- **Make** productive use of the bidding period while the contractor is putting together a bid
- **Reduce** surprises with the knowledge of how contractors approach the preparation of their bid, what their criteria for mark-up are, and what procedures they use to assemble and finalize their bid
- **Use** new methods of project delivery being contemplated by the industry
- **Deal** appropriately with the low bid when it exceeds the owner's available financing
- **Select** a contractor and get construction underway without delay

Who Should Attend?

Buyers of construction in Public Works Departments of municipal governments, as well as buyers of construction in the private sector. Project managers and construction managers representing owners, engineering consultants and contractors who want to gain a better understanding of the process.

Course Outline

Day One

1. Importance of Tendering During the Project Life Cycle

- Project Life Cycle and Essentials of Project Delivery
- Project Phases
- Design Phase
- Procurement
- Construction Phase
- Closing Out and Commissioning

2. Contractual Risk Management

- Reviewing the Fundamentals of Project Risk
- Risk Definition
- Elements of Risk Assessment
- Elements of Risk Control
- Planning a Risk Assessment
- Risk Mitigation and Management

WORKSHOP I

- Case Study: Risk management and allocation of risk between parties for effective project management
- Discussion of lessons learned

Day Two

3. Selecting Contracting Strategies and Procurement Methods, and the Impact of Disputes during the Project

- Contract Types
- General Contracts
- Lump Sum / Fixed Price Contracts
- Unit Price Contracts
- Cost-Plus-A-Fee Contracts

4. Design-Build Delivery System

- Design-Build Contracts

5. Alternative Dispute Resolution (ADR)

- The Four 'A'tions
- Conflict Management Systems Design

Day Three

6. Project Management Delivery System

- Standard Form of Agreement
- Sample Contract
- Reducing Risk When Selecting Construction Projects
- Factors Influencing Selection Process
- Other Factors Affecting Selection
- Major Factors of Success

7. Project Organization – The Role of the Parties – Responsibility Matrix

- Employer's Responsibilities
- Financing the Project
- Engaging Competent Consultants
- Providing Project Information
- Providing a Usable Site
- Obtaining Applicable Permits
- Engaging Contractors
- Approving / Rejecting Changes
- Being Involved with the Project

WORKSHOP II

- Case Study: Establishing a responsibility matrix and a line of communication for effective project control
- Discussion of lessons learned

Day Four

8. Design Management Process

- Project Design Management
- Design Management Plan
- Design Team
- Building Quality into the Design Team
- Improving Design Quality
- Quality Review Checklists
- Flowcharts
- Forms

9. Preparing Tendering Documents

- Project Manual Concept
- Forms of Agreement
- Conditions of Contract
- Introduction to Specifications Organization

- Methods of Specification
- Substitutions
- Submittals

Day Five

WORKSHOP III

- Case Study: Establish the most effective project delivery system to meet the project targets
- Discussion of lessons learned

10. General Aspects of Tendering, Bidding and Award

- Advertisements for Bids on Public Works
- Advertisements for Bids in the Private Sector
- Pre-Qualification
- Value Engineering
- Constructability Review
- The Decision to Bid
- The Bidding (Estimating) Period
- Accuracy of Bidding Information
- Instructions to Bidders
- Addenda
- Alternates
- The Bid Form
- Modifications and Withdrawal of Bids
- The Award
- Conclusion

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 7" Tablet containing a copy of the presentation, slides and handouts
- Post-assessment

Program Support

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

Schedule

The course agenda will be as follows:

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|---------------------|------------------|
| • 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*

- **3,200 USD**
**VAT is Excluded If Applicable*

المقدمة

تعتمد جودة واقتصاد مشاريع البناء على كفاءة ومهارات المقاولين والاستشاريين. يعد اتباع الإجراءات المناسبة في إعداد وثائق العطاء وإدارة المخاطر خطوة مهمة للغاية لتقييم واختيار الاستشاريين لتحقيق جودة عالية والحفاظ على المشاريع في حدود الميزانية. علاوة على ذلك ، تتطلب أنظمة تسليم المشروع طريقة مختلفة لضمان البناء في الوقت المحدد وفي حدود الميزانية ووفقاً للمواصفات. تقدم ورشة العمل هذه التي مدتها خمسة أيام إجراءات مجربة تتعلق بإعداد وثائق المناقصة ، وإدارة المخاطر ، وتقييم واختيار مقاولي البناء والاستشاريين ، بالإضافة إلى أنظمة تسليم المشاريع المختلفة لمشاريع البناء.

الأهداف

- إعداد وثائق المناقصات بشكل أفضل لتعكس أهداف أصحاب المصلحة، وتقييم المخاطر المحتملة، ووضع استراتيجية المناقصات لإدارة هذه المخاطر
- إجراء إعداد العقد وتقديم العطاءات لعملية إرساء العقد مع معرفة المسؤوليات النسبية لكل طرف معني
- تأهيل مقدمي العطاءات مسبقاً باستخدام المؤهلات المناسبة لمشروعك
- التمييز بين أنواع العطاءات وأنواع العقود
- توظيف السندات والتأمين بمزيد من المعرفة
- الاستفادة المثمرة من فترة العطاء أثناء قيام المقاول بإعداد العطاء
- تقليل المفاجآت بمعرفة كيفية تعامل المقاولين مع إعداد عطاءهم، وما هي معاييرهم للربح ، وما هي الإجراءات التي يستخدمونها لتجميع العطاء الخاص بهم والانتهاه منه
- استخدام طرق جديدة لتسليم المشاريع التي تفكر بها الصناعة
- التعامل بشكل مناسب مع العطاء المنخفض عندما يتجاوز التمويل المتاح للمالك
- اختيار مقاول وبدء أعمال البناء دون تأخير

الحضور

مشترو البناء في إدارات الأشغال العامة في البلديات الحكومية، وكذلك مشتري البناء في القطاع الخاص. مديرو المشاريع ومديرو البناء ممثلي الملاك والاستشاريين والهندسيين والمقاولين الذين يرغبون في اكتساب فهم أفضل للعملية.