IRF GLOBAL

Construction Supervision For Road Projects

Expert training by professionals, for professionals

Washington, D.C. USA
May 26-30, 2025

Workshop

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Background

This five-day intensive course offers participants an in-depth exploration of modern theories and practices in road construction supervision. Participants will gain insights into the pivotal role of construction in the project delivery lifecycle, enhanced through real-world examples and case studies. The curriculum emphasizes a reliable project delivery methodology, equipping delegates with key methods, tools, and techniques employed by leading companies and experts in the field. With a focus on FIDIC guidelines, the course delves into the roles and responsibilities of The Engineer, including contract administration and the FIDIC-prescribed dispute resolution process. Additionally, the program will cover topics on EPC Contracts and Project Financing, offering a comprehensive understanding of critical aspects in construction supervision.

Learning Objectives

- ✓ Gain a comprehensive understanding of various construction contract types and master techniques for their effective administration.
- ✓ Acquire detailed knowledge about EPC Contracts and the intricacies of Project Financing.
- ✓ Deepen your grasp of the project's triple constraints: quality, time, and cost, and learn practical approaches for their application in road construction ventures.
- ✓ Enhance technical abilities in construction inspection, ensuring robust quality management across diverse construction methodologies and operational processes in road and bridge construction.
- ✓ Delve into the nuances of construction change management, encompassing change orders, claims management, and methods of dispute resolution.
- ✓ Cultivate advanced project management and leadership competencies vital for the modern construction professional.

Target Audience

- National /State Road & Transport Engineers
- Highway Engineers and Managers
- Private Consultants & Contractors

Lead Instructor

Dr. Carlos Chang
Professor, University of South Florida

Dr. Carlos M. Chang is an Associate Professor in the Department of Civil and Environmental Engineering at Florida International University (FIU). Prior to joining FIU in August 2020, Dr. Chang worked as an Associate Professor at the Department of Civil Engineering at the University of Texas at El Paso (UTEP), Associate Researcher at the Texas A&M Transportation Institute (TTI), and international consultant for the Inter-American Development Bank (IDB) and engineering companies in road projects overseas. Dr. Chang is frequently invited as a keynote speaker at international conferences and as a subject matter expert in technical committees.

Registration (hotel accommodation not included)

- **2,500 USD IRF Members / Groups of 3 or more**
- **3,000 USD Non-IRF Members**

Seminar Hotel:

Sheraton Suites Old Town Alexandria
801 North Saint Asaph Street,
Alexandria, Virginia 22314 USA
Tel: +1 703 836 4700

Website:
https://www.marriott.com/hotels/travel/wassi-sheraton-suites-old-town-alexandria/

Book Your Room

Registration: https://www.irf.global/event/cs25-ws-dc/
For any support, please contact melabyad@irf.global

Agenda

Monday – Friday (9:00 AM – 4:00 PM)

May 26: Foundations of Construction Supervision

- Introduction to Construction Contracts: Key Concepts and Varieties
- Preconstruction Planning: Strategies and Best Practices
- Procurement Processes in Road Construction
- Quality Management: Ensuring Excellence in Construction
- Effective Schedule Management Techniques
- Principles of Cost Management in Construction Projects

May 27: Financial Management and Value Assessment

- Construction Financing: Fundamentals and Approaches
- Earned Value Management: Measuring Project Performance
- Financial Management in Construction: Core Principles
- Construction Cost Accounting: Strategies and Systems

May 28: Project Delivery Models

- EPC (Engineering, Procurement, Construction) Project Delivery: An Overview
- PPP (Public-Private Partnership) Project Delivery: Understanding Its Dynamics

May 29: Specialized Construction Techniques and Site Exploration

- Bridge Construction: Substructures and Key Elements
- Bridge Construction: Superstructures and Advanced Techniques
- Managing Drainage Works in Road Construction
- Practical Site Visit: Observing Real-World Applications

May 30: Advanced Topics and Course Completion

- Claims and Dispute Management: Strategies for Resolution
- Special Topics in Construction Engineering and Supervision
- Course Examination: Assessing Knowledge and Skills Acquired

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IRF GLOBAL

International Road Federation

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