IRF GLOBAL

Civil Engineering Project Planning & Programming

Tirana, Albania
August 18-22, 2025

Workshop

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Background

This interactive IRF course for Civil Engineering Project Planning and Programming introduces project management principles to civil engineers, project managers, and different construction project stakeholders. This course will focus on project planning principles and provide the course attendees with detailed information regarding different planning components, advantages of project planning, and the impediments to project planning. The course will provide strategies for calculation of project risk and risk mitigation before and during project execution. Quality concepts and human resources best practices are introduced and tied to project planning. Detailed case studies are introduced to reinforce the project planning and programming concepts as pertinent to infrastructure projects applications.

Learning Objectives

- ✓ Principles of Project Management are introduced as pertinent to different project stakeholders including project managers, engineers, and contractors.
- ✓ Participants will study principles of project planning during project different phases, including project initial planning, work breakdown structure, project monitoring, and project delivery
- ✓ Project Risk Management Principles are introduced. This includes risk assessment, risk mitigation, and limiting risk in construction projects
- ✓ Attendees will be provided with principles of project scheduling, detection of critical activities, resource allocation, and schedule updating
- ✓ Quality concepts as related to planning will be introduced.

Target Audience

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

Lead Instructor

Amin K. Akhnoukh, Ph.D., P.E.
Professor, East Carolina University

Dr. Amin Akhnoukh is a professor of construction engineering and management at East Carolina University, North Carolina, USA. Dr. Akhnoukh earned his B.S. in Civil Engineering (1997) from Cairo University, M.S. in Civil Engineering from Kansas State University (2005), Kansas, USA, and Doctorate in Construction Engineering (2008) from the University of Nebraska-Lincoln, Nebraska, USA. Dr. Akhnoukh has worked as an assistant and associate professor of civil and construction engineering at the University of Arkansas at Little Rock (2009-2017) and as associate and professor of construction management (2018-todate) at East Carolina University. Dr. Akhnoukh has generated more than $3.0 million in research funding from the National Science Foundation, NASA, and State Departments of Transportation. Dr. Akhnoukh has more than 100 refereed publications in the area of construction materials, infrastructure asset management, and artificial intelligence applications in construction. Dr. Akhnoukh has more than 10 years of construction experience in Egypt, the middle east, and the United States. He is a registered professional engineer in Egypt and the United States, and a NASA and IRF Fellow.

Registration

- **2,500 USD IRF Members / Groups of 3 or more**
- **3,000 USD Non-IRF Members**
- **1,500 USD Albania Delegates**

Seminar Hotel:

Hilton Garden Inn
Alpas Center, 146 Bulevardi,Gjergi | Tirana, Albania
Website: https://www.hilton.com/en/hotels/tiagigi-hilton-garden-inntirana/?msockid=0551da00cde46a3e1fa8cf64ccab6b58
Registration: **https://www.irf.global/event/cepp25-tirana/**
For any support, please contact melabyad@irf.global

Agenda

Monday – Friday (9:00 AM – 4:00 PM)

Day 1: Introduction to Project Management

09:00– 10:30

- Introduction to Project Management Principles

10:30 – 10:45: Coffee/Tea Break

10:45 – 12:00

- Project Phases
- What is Project Planning

12:00 – 13:00: Lunch Break

13:00 – 14:30

- Advantages and Limitations of Project Planning

14:30 – 14:45: Coffee/Tea Break

14:45 – 16:00

- Open Discussions, Q&A, and Day 1 Conclusive Remarks

Day 2: Components of Construction Project Planning

09:00– 10:30

- Project Scope of Work
- Project Resource Allocation

10:30 – 10:45: Coffee/Tea Break

10:45 – 12:

- What is Work Breakdown Structure?
- Importance of WBS in Infrastructure Projects

12:00 – 13:00: Lunch Break

13:00 – 14:30

- Project Schedule

14:30 – 14:45: Coffee/Tea Break

14:45 – 16:00

- Open Discussions, Q&A, and Day 2 Conclusive Remarks

<u>Day 3: Detailed Project Scheduling</u>

09:00– 10:30

- Intro to Project Scheduling

10:30 – 10:45: Coffee/Tea Break

10:45 – 12:

- Types of Activity Relationships in Project Schedule

12:00 – 13:00: Lunch Break

13:00 – 14:30

- Project Free Float and Total Float
- Project Scheduling Examples

14:30 – 14:45: Coffee/Tea Break

14:45 – 16:00

- Open Discussions, Q&A, and Day 3 Conclusive Remarks

<u>Day 4: Risk Management and Planning</u>

09:00– 10:30

- Definition of Risk – How to Assess Risk in a Project

10:30 – 10:45: Coffee/Tea Break

10:45 – 12:

- Risk Calculation

12:00 – 13:00: Lunch Break

13:00 – 14:30

- Risk Analysis Case Study

14:30 – 14:45: Coffee/Tea Break

14:45 – 16:00

- Open Discussions, Q&A, and Day 4 Conclusive Remarks

<u>Day 5: Quality and HR in Project Planning</u>

09:00– 10:30

- What is Quality?

10:30 – 10:45: Coffee/Tea Break

10:45 – 12:

- Ishikawa Diagram
- Quality Programming

12:00 – 13:00: Lunch Break

13:00 – 14:30

- Planning and Project Implementation

14:30 – 14:45: Coffee/Tea Break

14:45 – 16:00

- Open Discussions, Q&A, and Day 5 Conclusive Remarks
- Certification Handling

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