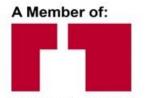


# Implementation of a Railway Projects

تنفيذ مشاريع السكك الحديدية

12 – 16 April 2020 Dubai / United Arab Emirates



PROJACS ACADEMY







Projacs
an @ egis company

12 – 16 April 2020, Dubai / United Arab Emirates

#### Introduction

After long consultation with industry, we have developed the essential Implementation of Railway Projects course to be offered as training course.

#### **Objectives**

#### By attending this course you will recognize and understand the following topics:

- Railway projects development process
- General management principles of railway projects implementation
- Managing the project during the design phase
- Managing the project during the construction phase
- Managing the project during the testing and start-up phase
- Railway Transport capacity and construction Standards
- Railway classification and main technical standards
- Comparison and selection of railway main technical Standards
- Synthetic optimization method for railway main technical Standards
- Railway Plane and Profile Design
- Railway projects requirements
- Railway projects economics
- Geotechnical and hydrological studies
- Laying of railway track and its components
- Welding and tensioning of rails
- Ballast and the ballast bed
- Laying and transportation of turnouts
- Track construction cranes
- Signaling systems implementation
- Coordination with other agencies
- Public utility coordination





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## **Who Should Attend?**

- Railway permanent way engineers
- The railway and metro signaling Engineers
- The railway and metro operation Engineers
- The Station Masters
- Railway Engineers
- Systems Engineers
- Inspectors and Technicians
- Railway Systems Contractors



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#### **Course Outline**

#### **DAY 1:**

- Railway projects development process
- General management principles of railway projects implementation
- Managing the project during the design phase
- Managing the project during the construction phase

## **DAY 2:**

- Managing the project during the testing and start-up phase
- Railway Transport capacity and construction Standards
- Railway classification and main technical standards
- Comparison and selection of railway main technical Standards

## **DAY 3:**

- Synthetic optimization method for railway main technical Standards
- Railway Plane and Profile Design
- Railway projects requirements
- Railway projects economics

#### **DAY 4:**

- Geotechnical and hydrological studies
- Laying of railway track and its components
- Welding and tensioning of rails
- Ballast and the ballast bed
- Laying and transportation of turnouts

#### **DAY 5:**

- Track construction cranes
- Signaling systems implementation
- Coordination with other agencies
- Public utility coordination
- Test and final exam





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## **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
•	<b>Technical Session</b>	10.15-12.15 noon
•	Coffee Break	12.15-12.45 pm
•	<b>Technical Session</b>	12.45-02.30 pm
•	Course Ends	02.30 pm

#### **Course Fees\***

#### • 2,950USD

\*VAT is Excluded If Applicable





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## مقدمة

بعد التعرض للعديد من الاستشارات في مجال الصناعة، قمنا بتطوير دورة تنفيذ مشاريع السكك الحديدية الأساسية لتقديمها كدورة تدرببية.

## أهداف البرنامج

## من خلال حضور هذه الدورة ،سوف يتم التعرف على الموضوعات التالية:

- عملية تطوير مشاريع السكك الحديدية
- مبادئ الإدارة العامة لتنفيذ مشاريع السكك الحديدية
  - إدارة المشروع خلال مرحلة التصميم
    - إدارة المشروع خلال مرحلة البناء
  - إدارة المشروع خلال مرحلة الاختبار والبدء
    - معايير النقل والبناء بالسكك الحديدية
  - تصنيف السكك الحديدية والمعايير الفنية الرئيسية
- مقارنة واختيار المعايير الفنية الرئيسية للسكك الحديدية
- طريقة تحسين المعايير الفنية الرئيسية للسكك الحديدية
  - طائرة السكك الحديدية وتصميم الملف الشخصي
    - متطلبات مشاريع السكة الحديد
    - اقتصادیات مشاریع السکك الحدیدیة
    - الدراسات الجيوتقنية والهيدرولوجية
    - وضع مسار السكك الحديدية ومحتواياتها
      - لحام وتوتر القضبان
      - الصابورة وسرير الصابورة
        - وضع ونقل الاقبال
          - رافعات البناء
        - تنفيذ أنظمة الإشارات
      - التنسيق مع الوكالات الأخرى
        - التنسيق مع المرافق العامة





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## الحضور

- مهندسي الطرق الدائمة للسكك الحديدية
- مهندسي خطوط السكك الحديدية والمترو
  - مهندسي السكك الحديدية والمترو
    - أساتذة المحطات
    - مهندسي السكك الحديدية
      - مهندسي النظم
      - المفتشين والفنيين
    - مقاولون أنظمة سكك حديدية