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بروجاكس للتدريب والتطوير  
Projacs Training and Development

# Implementation of a Railway Projects

تنفيذ مشاريع السكك الحديدية

12 – 16 April 2020

Dubai / United Arab Emirates

A Member of:



PROJACS ACADEMY



ProjacsAcademy.com



## 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

### 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

## 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

### 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\*

- **2,950USD**  
*\*VAT is Excluded If Applicable*

## مقدمة

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

## 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
- اقتصاديات مشاريع السكك الحديدية
- 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

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