



an eegis company

بروجاكس للتدريب والتطوير
Projacs Training and Development

Implementation of a Railway Projects

تنفيذ مشاريع السكك الحديدية

25 – 29 July 2021

Dubai / UAE



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 the end of this course practitioners shall learn to:

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

- 1- Railway projects development process
- 2- General management principles of railway projects implementation
- 3- Managing the project during the design phase
- 4- Managing the project during the construction phase
- 5- Managing the project during the testing and start-up phase
- 6- Railway Transport capacity and construction Standards
- 7- Railway classification and main technical standards
- 8- Comparison and selection of railway main technical Standards
- 9- Synthetic optimization method for railway main technical Standards
- 10- Railway Plane and Profile Design
- 11- Railway projects requirements
- 12- Railway projects economics
- 13- Geotechnical and hydrological studies
- 14- Laying of railway track and its components
- 15- Welding and tensioning of rails
- 16- Ballast and the ballast bed
- 17- Laying and transportation of turnouts
- 18- Track construction cranes
- 19- Signaling systems implementation
- 20- Coordination with other agencies
- 21- 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

يعد 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:

١. عملية تطوير مشاريع السكك الحديدية
٢. مبادئ الإدارة العامة لتنفيذ مشاريع السكك الحديدية
٣. إدارة المشروع خلال مرحلة التصميم
٤. إدارة المشروع خلال مرحلة البناء
٥. إدارة المشروع خلال مرحلة الاختبار والبدء
٦. معايير النقل والبناء بالسكك الحديدية
٧. تصنيف السكك الحديدية والمعايير الفنية الرئيسية
٨. مقارنة واختيار المعايير الفنية الرئيسية للسكك الحديدية
٩. طريقة تحسين المعايير الفنية الرئيسية للسكك الحديدية
١٠. طائرة السكك الحديدية وتصميم الملف الشخصي
١١. متطلبات مشاريع السكك الحديدية
١٢. اقتصاديات مشاريع السكك الحديدية
١٣. الدراسات الجيوتقنية والهيدرولوجية
١٤. وضع مسار السكك الحديدية ومحتوياتها
١٥. لحام وتوتر القضبان
١٦. الصابورة وسرير الصابورة
١٧. وضع ونقل الاقبال
١٨. رافعات البناء
١٩. تنفيذ أنظمة الإشارات
٢٠. التنسيق مع الوكالات الأخرى
٢١. 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