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بروجاكس للتدريب والتطوير  
Projacs Training and Development

# Ageing Buildings - Revive and Renovate or Demolish to Increase Productivity

التجديد والترميم او الهدم لرفع إنتاجية المباني القديمة

15 – 19 September 2019

Cairo / Egypt

A Member of:



PROJACS ACADEMY



ProjacsAcademy.com



## Introduction

Like everything in life building aren't made to live forever... We prefer renovating over building new... and adding some vim and vigor to the original concept

## Objectives

The course aims to increase the knowledge and skill of the participant about:-

- 1- reinforcing and strengthening of building
- 2- Enhancing building productivity through retrofit efforts.
- 3- Transforming building asset performance
- 4- Improving building operational efficiency through the latest trends and technologies used in refurbishing
- 5- Assessment of buildings.
- 6- Repair of old buildings.
- 7- Demolishing of buildings

This course aims also to develop the skill of the participant in the field of managing the repair works and overcome the problems that happened in the field.

## Who Should Attend?

This course is planned to meet the needs of all the consultants, site engineers, the supervision engineers and the site supervisor.

## Course Outline

### Day one:

- Life cycle of the various types of buildings.
- Life cycle of the various construction materials.
- Types of retrofitting and repairing.
- Selecting the suitable material for repair.
- Common faults in application of repairing

- The main function of the retrofitting and repairing
- Application of the repair material

## **Day two:**

- The main features of the wall bearing system.
- How to simulate structurally the wall bearing systems?
- Main distress you can face in the skeleton structures.
- Assessing and examining the building.
- The various methods of repair of wall bearing systems.
- Repair and retrofitting of old buildings.
- Case studies

## **Day three:**

- The main features of the skeleton type structures.
- How to simulate structurally the skeleton type structures?
- Main distress you can face in the skeleton structures.
- Assessing of the skeleton type structures.
- The various methods of repair of the skeleton type structures.
- Case studies

## **Day four:**

- Bill of quantities of the repair works.
- Specification of the repair materials.
- Influence of the properties of the materials on the cost of the repair works.
- Influence of the repair techniques on the cost of the repair works.
- Case studies

## **Day five:**

- How to carry out the study for the safety of the building?
- The guide lines to take the decision of repair or demolishing.
- Types of risk in the repair works and demolishing works.
- How to manage the repair or demolishing site?

## 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

تم تصميم هذا البرنامج ليزيد من معرفة المهندس المشارك عن :-

- تعزيز وتقوية المبنى القديم.
- تعزيز الإنتاجية من خلال بناء الرجعية لاتخاذ قرار الترميم او الازالة واعادة البناء.
- فحص إداء المبنى من نواحيه المختلفة ( أمان – وظيفة – خدمات)
- تحسين كفاءة المبنى الانشائية والمعمارية
- تقييم المبان من الناحية الانشائية للوصول الى مدى امانها الانشائي
- ترميم المباني وخاصة القديمة.
- هدم المباني

### الحضور

جميع المهندسين الاستشاريين و مهندسى التنفيذ والاشراف على التنفيذ سواء تخصص عمارة او مدنى والذين لهم صلة باعمال الترميم واعادة التأهيل واتخاذ القرارات الخاصة بالترميم او الهدم وكذلك المشرفين الفنيين .