



PROJACS ACADEMY
by @egis



Ageing Buildings - Revive and Renovate or Demolish to Increase Productivity

التجديد والترميم او الهدم لرفع إنتاجية المباني القديمة

29 October – 02 November 2023

Cairo / Egypt

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.

In some cases, it may be more cost-effective to demolish an ageing building and replace it with a new one. However, in other cases, it may be possible to revive and renovate the building to extend its lifespan and improve its performance.

This training course will provide you with the information you need to make informed decisions about whether to revive, renovate, or demolish an ageing building. You will learn about the factors to consider in making these decisions, as well as the benefits and drawbacks of each option.

Objectives

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

- Reinforcing and strengthening of building
- Enhancing building productivity through retrofit efforts
- Transforming building asset performance
- Improving building operational efficiency through the latest trends and technologies used in refurbishing
- Assessment of buildings.
- Repair of old buildings.
- Demolishing of buildings

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

Who Should Attend?

- Consultants
- Site engineers
- Supervision engineers
- Site supervisors

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 guidelines 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 7” Tablet containing a copy of the presentation, slides and handouts
- Post-assessment

Program Support

This program is supported by interactive discussions, role-play, 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*

- **3,200 USD**
**VAT is Excluded If Applicable*

المقدمة

مثل كل شيء في الحياة لم يتم تصميمه للعيش إلى الأبد ... نحن نفضل التجديد على البناء الجديد ... وإضافة بعض الحيوية والحدثة إلى المفهوم الأصلي.

في بعض الحالات، قد يكون هدم مبنى قديم واستبداله بأخر جديد أكثر فعالية من حيث التكلفة. ومع ذلك، في حالات أخرى، قد يكون من الممكن إحياء وتجديد المبنى لإطالة عمره وتحسين أدائه.

ستزودك هذه الدورة التدريبية بالمعلومات التي تحتاجها لاتخاذ قرارات مستنيرة حول ما إذا كنت تريد إحياء مبنى قديم أو تجديده أو هدمه. ستتعرف على العوامل التي يجب مراعاتها عند اتخاذ هذه القرارات، بالإضافة إلى مزايا وعيوب كل خيار.

الحضور

تهدف الدورة إلى زيادة معرفة ومهارة المشاركين حول: -

- تدعيم وتقوية البناء.
- تعزيز إنتاجية المباني من خلال الجهود الرجعية.
- تحويل أداء أصول المباني
- تحسين الكفاءة التشغيلية للمباني من خلال أحدث الاتجاهات والتقنيات المستخدمة في التجديد.
- تقييم المباني.
- ترميم المباني القديمة.
- هدم المباني.

كما تهدف هذه الدورة إلى تنمية مهارة المشاركين في مجال إدارة أعمال الترميم والتغلب على المشاكل التي حدثت في المجال.

الحضور

- الاستشاريون
- مهندسو المواقع
- مهندسو الإشراف
- مشرفو المواقع