

Repair & Rehabilitation of Building

29 April – 03 May 2018

Muscat / Sultanate of Oman

Objectives:

The course aims to increase the knowledge and skill of the participant about the material used in rehabilitation and repair works specially for bearing wall system used in the old building. Also give the rules about how to design the repair works and make the bill of quantities. This course will develop the skill of the engineer in assessing the building and take the decision.

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 structural consultants, site engineers, the supervision engineers and the site supervisor.

Outlines:

- Types of retrofitting and repairing materials
- Selecting the suitable material for repair.
- Common faults in application of repairing materials
- The main function of the retrofitting and repairing materials
- Application of the repair material
- The main features of the wall bearing system (mud and stone).
- 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
- 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
- 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
- How to carry out the study for the safety of the building?
- The guide lines to take the decision of repair.
- Types of risk in the repair works.
- How to face the risk in the repair works?

- How to manage the repair site?

Training Method

- Live group instruction
- Use of real-world examples, case studies and exercises
- Interactive participation and discussion
- Power point presentation, LCD and flip chart
- Self-test and group activities
- Each participant receives a binder containing a copy of the presentation slides and handouts

Program Support:

This program is supported by interactive discussions, role play, case studies and to highlight the techniques available to the participants.