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## Basic Cement and Concrete Applications

**Training code:** 0617

**Training type:**

**Learning mode:** Face to face

Specialized course

**Duration:** 5 days

**Languages available:**

**Unit in charge:** ICRC Water and Habitat department

English

**Functional competencies:** Architecture & Engineering

### Course description

The course has been designed to provide participants with the required expertise to assess the quality of the cement/concrete applications in construction projects and evaluate better the relevant contractual tender offers.

During the training participants will learn how:

- Cement and concrete are produced
- To select appropriate aggregates
- To design the mix according to different applications
- To test concrete strength and durability
- To anticipate defects and introduce corrective measures
- To design basic concrete structures
- To effectively supervise working sites.

### What you will learn?

By the end of the course participants are able to:

- Explain the principles of cement applications
- Select adequate components and mixing design for their applications
- Take the necessary measures to improve concrete performance and durability
- Understand the basics of structural engineering

### What changes can you expect after this training?

*Critical work behaviours expected from participants after completion of the course.*

- Critically assess the quality of cement/concrete applications in construction projects and evaluate contractual tender offers based on concrete expertise.
- Improve concrete performance and durability.
- Select appropriate aggregates, design concrete mixes, test concrete strength and durability, anticipate and address defects, design basic concrete structures, and effectively supervise construction sites.



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*Teams expected results.*

- Improved construction project quality through participant expertise in concrete applications.
- Enhanced ability to evaluate and select tenders based on concrete specifications.
- Reduced construction defects due to participant skills in identifying and mitigating issues.
- Increased efficiency and productivity at construction sites through participant leadership.

*Organizational expected results*

- Improved decision making around construction tenders => better specifications
- Better specifications => increased overall effectiveness of construction projects
- Improved construction quality and fewer defects => reduced project costs

### **Who should attend?**

Experienced engineers engaged in the construction and restoration field, responsible for small-medium scale sites.

### **Where will it take place?**

Amman TBC

### **Training cost?**

The total course cost will be **2650 EUR (1750 course fees + 900 hotel)**.

Course fees include venue, facilitation, lunch, and snacks during the days of the course.

You have the option of having the ICRC organize your accommodation or arranging it yourself. If you organize it yourself, you will only pay the course fees (**1750 EUR**).

Flight and transport are entirely your/your organization's responsibility in terms of organization and coverage.

### **How to register?**

Please use the registration form link:

<https://forms.office.com/e/zWzDPrGzBy>

### **Contact**

[wathabtraining@icrc.org](mailto:wathabtraining@icrc.org)

### **Calendar**

September 2026 TBC

