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Essentials of Construction Practices

Training code: 1026**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 relevant knowhow on good construction practices and site supervision. The acquired skills will help the participants to avoid the most common mistakes during the planning and implementation of construction projects.

The training covers topics like:

- Selection Criteria of Building Materials i.e. concrete
- Basic Principles and Standards of Structural Engineering
- Structural Defects and Corrective Measures
- Contract Management and Administration
- Construction Site Planning
- Health and Safety in Construction

What will you learn?

By the end of the course participants are able to:

- understand the complexity embraced in structural engineering and, also, identify basic load distribution principles on structures.
- plan and organize a construction site before the commencement of any construction activities.
- select the best available (natural and local) material and how to make efficient and economical use of them over the construction and planning phase.
- understand the chemical, mechanical and durability characteristics of concrete and to choose the right proportions of concrete's constituent materials.
- explain the essential tasks for achieving healthy and safe construction sites.
- know the essential components of a construction contract and their relevance, as well as the main contracting options and their differences.

What changes can you expect after this training?

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

- Proper material selection, site planning, and construction management in construction projects.
- Selection of the most appropriate and cost-effective solutions.
- Ability to recognize potential safety risks and implement corrective measures to ensure a safe working environment.
- Effective interpretation of construction contracts, management of contractual obligations, and effectively resolution of any disputes that may arise.



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Teams expected results.

- Improved construction quality by following best practices.
- Increased awareness of safety protocols should lead to a reduction in construction-related accidents.
- Effective site planning, material management, and communication hence faster project completion times and lower costs.
- Reduced rework due to errors.

Organizational expected results

- Understanding of construction regulations => Increased compliance
- Strong safety culture => fewer injuries and healthier working conditions
- Improved efficiency => 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?

Federal Institute of Technology Zurich

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

Calendar

11th to 15th May 2026

