

# Planning Construction Equipment and Methods For Reducing Cost Of High-rise Buildings Training

## Description

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### Course Description

A majority of high-rise commercial, industrial and institutional building construction projects experience cost over-runs. Proper planning, involving construction method selection, sequencing operations and coordinating  specialty trades, as well as selection and management of proper construction equipment for specific construction tasks and monitoring its production can help effect cost savings.

This course focuses on planning, implementing a schedule and avoiding mistakes in all construction operations, equipment, and methods needed for construction of high-rise buildings to help developers and their construction personnel complete projects within their budgeted cost.

### Course Objective

To enable constructors of high-rise commercial, industrial and institutional buildings select construction methods and equipment and adopt systematic planning techniques to enhance savings.

### Course Outline

#### Planning the Work at Bidding Stage

- Site planning and management
- Temporary utilities requirement

#### Selecting And Sequencing Building Construction Methods and Equipment

- Selection and management of proper construction equipment for specific construction tasks and estimating production/duration
- Establishing construction schedule

### Construction Safety

- Construction safety gear
- Fall protection
- Construction safety signs
- Safety training
- Temporary heating

### Material Handling

- Cranes
- Man material hoists
- Loading platforms
- Just-in-time delivery schedule

### Concrete And Concrete Equipment

- Cranes
- Buckets, chutes, concrete pumps and water pumps
- Air compressors

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### Forming Systems

- Scaffolding systems
- Shoring systems
- Formwork

### Layout Engineering And Surveying

- Drawings
- Tolerances
- Cambers
- Concrete creep

### Planning And Coordinating

- Monitoring and updating the schedule
- Job meetings
- Corrective action and schedule update
- Team work

### Permanent Utilities

- Power
- Water
- Storm and sanitary sewers

### Final Completion

- Defect list
- Corrections
- Paperwork
- Taking over and handing over
- Meeting occupancy requirements

### Claims

- Relationship among architect/engineer, owner, contractor and subcontractors
- Expediting/accelerating
- Impact of delays
- Additional work
- Change orders
- As-built schedule

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