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# Question 1

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**Question Type:** MultipleChoice

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Assuming that you had only one crane capable of 30 lifts per day, 3 column pours requiring 28 lifts each, plus associated assorted work requiring an additional 150 lifts, what is the minimum planned working duration for this work?

## Small Tower Crane

Typical capacity for a Small Crane

Maximum Load 5 tons

Minimum Load 1.5 tons

Operation	Time (in minutes)
Sling Up	5
Hoist Up	4
Discharge	3
Clear Unload Area	3
Hoist Down	2

## **Options:**

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**A-** 8 work days

**B-** 18 work days

C- 7 work days

D- 15 workdays

**Answer:**

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A

## Question 2

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**Question Type: MultipleChoice**

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Assuming a total of 30 lifts per crane per day, what is the maximum number of lifts that could be accomplished using 3 small tower cranes over a 5-day period?

### Small Tower Crane

Typical capacity for a Small Crane

Maximum Load     5 tons

Minimum Load     1.5 tons

Operation	Time (in minutes)
Sling Up	5
Hoist Up	4
Discharge	3
Clear Unload Area	3
Hoist Down	2

### **Options:**

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- A-** 450 lifts
- B-** 300 lifts
- C-** 45 lifts
- D-** 150 lifts

### **Answer:**

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A

## Question 3

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### Question Type: MultipleChoice

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There is only enough room for a maximum of 4 cranes to be placed on-site. Assuming that a single crane can perform 35 lifts per day and that a column pour requires 60 lifts, what is the minimum number of tower cranes that should be used for the above described column pours?

#### Small Tower Crane

Typical capacity for a Small Crane

Maximum Load     5 tons

Minimum Load     1.5 tons

Operation	Time (in minutes)
Sling Up	5
Hoist Up	4
Discharge	3
Clear Unload Area	3
Hoist Down	2

#### Options:

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A- 2 cranes

**B-** 1 crane

**C-** 4 cranes

**D-** 3 cranes

**Answer:**

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A

## Question 4

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**Question Type:** MultipleChoice

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Each column must be poured in one day. Each column requires 2,000 cubic feet of concrete. The lift bucket has a capacity of 40 cubic feet. How many lifts will be required per column pour?

### Small Tower Crane

Typical capacity for a Small Crane

Maximum Load     5 tons

Minimum Load     1.5 tons

Operation	Time (in minutes)
Sling Up	5
Hoist Up	4
Discharge	3
Clear Unload Area	3
Hoist Down	2

### **Options:**

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**A-** 80 lifts

**B-** 50 lifts

**C-** 5 lifts

**D-** 20 lifts

### **Answer:**

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B

## Question 5

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### Question Type: MultipleChoice

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Crane operators require 1 hour prep and 1 hour clean-up and inspection per day. There is only 1 crane operator allocated per crane. Crane operators are not allowed to work more than 8 hours a day. Lunchtime break lasts 1 hour. Assuming a 10 minute cycle time, how many lifts per day can be expected?

#### Small Tower Crane

Typical capacity for a Small Crane

Maximum Load     5 tons

Minimum Load     1.5 tons

Operation	Time (in minutes)
Sling Up	5
Hoist Up	4
Discharge	3
Clear Unload Area	3
Hoist Down	2

#### Options:

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A- 36 lifts



**B-** 24 lifts

**C-** 30 lifts

**D-** 48 lifts

**Answer:**

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A

## Question 6

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**Question Type:** MultipleChoice

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What is the cycle time?

### Small Tower Crane

Typical capacity for a Small Crane

Maximum Load     5 tons

Minimum Load     1.5 tons

Operation	Time (in minutes)
Sling Up	5
Hoist Up	4
Discharge	3
Clear Unload Area	3
Hoist Down	2

### **Options:**

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- A- 5 minutes
- B- 17 minutes
- C- 14 minutes
- D- 6 minutes

### **Answer:**

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B

## Question 7

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**Question Type:** MultipleChoice

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How could the structural steel drawing delay have been prevented?

### Options:

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- A- Add a time buffer at the end of structural steel activities.
- B- Allow adequate time for review and resubmittal in the baseline schedule.
- C- Release the structural steel for fabrication concurrent with review of structural steel shop drawings.
- D- Switch to post-tensioned concrete construction.

### Answer:

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A

## Question 8

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**Question Type:** MultipleChoice

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What problems can a soils engineer deal with on a project?

**Options:**

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- A- Survey error.
- B- Hidden subsurface conditions.
- C- Archeological findings.
- D- Toxic soils.

**Answer:**

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B

## Question 9

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**Question Type: MultipleChoice**

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What owner action could have mitigated the late completion of the project?

**Options:**

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- A- Hire a more senior project manager.
- B- Self-perform more of the work.
- C- Use a procurement agent to monitor and expedite equipment deliveries.
- D- Prepare better structural steel drawings.

**Answer:**

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C

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