SUPPLEMENTAL STUDY RESOURCE

# Crane Exam Study Notes

A short mobile-crane study exercise, not a lift plan, crane chart, qualification or complete exam course. Use the applicable official handbook and the equipment manufacturer's instructions. These original examples are not official exam questions.

## 1. Match the credential before practice

In the inspected CCO handbook, TLL means telescopic swing-cab, TSS means telescopic fixed-cab, and LAT means lattice-boom. Confirm the designation and current handbook that apply to your own registration; a digital drill is not the required practical examination.

[S1] CCO Mobile Crane Operator handbook, revision 01/25

## 2. Read the chart before doing arithmetic

Use the manufacturer's chart for the stated equipment configuration. Do not multiply an already-rated chart value by a universal percentage. Check its notes for the deductions that apply; do not deduct an allowance twice.

[S2] OSHA 1926.1417(a), (c), (o) - operation and capacity

## Worked example - all deductions supplied

An invented study problem gives a 20,000 lb chart value and explicitly says it includes a 500 lb hook block and 200 lb rigging. No other deduction applies in this example. What payload remains?

```
20,000 - 500 - 200 = 19,300 lb
```

Check: payload plus the two supplied deductions equals 20,000 lb. This arithmetic is not authorization for an actual lift; a different chart note changes the calculation.

# Distinguish Similar Rules

## 3. Power-line assessment is not a shortcut clearance

For operations covered by 1926.1408, first assess whether equipment, load or rigging could enter the 20-foot zone. If so, the rule provides deenergize/ground, 20-foot, or voltage-based Table A options with required precautions. A 10-foot Table A value for lines up to 50 kV is not blanket permission to approach. Other operating contexts and higher voltages require their applicable rules.

[S3] OSHA 1926.1408(a) - power-line assessment and options

## 4. Inspection role and record are separate questions

A competent person starts the equipment visual inspection before each shift and finishes it before or during that shift. Monthly inspections have a separate documentation requirement. Do not substitute 'the operator must document every shift' for these distinctions; other applicable requirements and manufacturer instructions still matter.

[S4] OSHA 1926.1412(d), (e) - shift and monthly inspections

## 5. A/D director is a competence requirement

Assembly/disassembly supervision requires a person who is both competent and qualified, or a competent person assisted by qualified personnel. A job title alone does not establish that requirement.

[S5] OSHA 1926.1404(a) - assembly/disassembly supervision

## Use this as a source-reading exercise

For each rule, identify its scope, responsible person, applicable document and the fact that would change your answer. Stop if the problem omits a necessary configuration or source. Do not use this study copy for operational decisions.

# Check Your Reasoning

## 1. A chart already states a rated value. Should you apply a generic 0.75 multiplier?

No. Follow that chart's configuration and notes, not a universal multiplier. [S2]

## 2. Does seeing a 10-foot value in Table A remove the earlier assessment and required precautions?

No. Keep the work-zone assessment, selected option and precautions distinct. [S3]

## 3. Does an operator title automatically establish the inspection role?

No. The cited equipment rule specifies a competent person. [S4]

## 4. Does naming an A/D director prove competence and qualifications?

No. Check the required competence/qualification arrangement. [S5]

## 5. Is TSS the swing-cab designation?

No. TSS is fixed-cab; TLL is swing-cab in the inspected handbook. [S1]

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