

# EG-02

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## MAINTENANCE MECHANIC TRAINING

### SKILL CHECK GUIDE

Duty EG: Cranes/Hoists  
EG-02: PM Crane/Hoist (15 Ton)

Issued 01/01/99

## Rationale

This Skill Development Guide provides the knowledge a Learner needs to preform a PM on a crane/hoist. The Learner must be able to PM a crane/hoist.

## Skill Check Set-Up

Identify a crane/hoist that requires a preventive maintenance check. Check to ensure the availability of a JLG.

Provide the tools, materials, and resources needed to demonstrate the task.

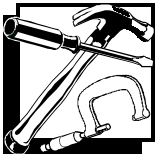
## What The Learner Will Need

This section contains the safety information, tools, and resources you will need before performing a PM on a crane/hoist.

**SAFETY  
FIRST**

**DON'T TAKE  
CHANCES**

- Follow all Caterpillar facility safety standards when performing this task.
- The crane's electrical system must be locked and tagged after the power on checks have been completed during the PM check.
- Gloves must be worn to check the wire rope.
- A safety harness must be worn while in the bucket of the JLG.
- A tripping hazard exists when moving around catwalk, while climbing around to check the various components and getting in and out of the cab.



- flashlight
- JLG
- gloves
- adjustable wrench
- channel lock pliers
- putty knife
- shop towels or rags
- caliper
- machinist ruler
- tape measure
- pencil and paper



Crane Preventive Maintenance Checklist



## Skill Check

Given a request to PM a crane/hoist, PM the crane/hoist.

Needs  
Mastered Practice

### Safe Work Practices

- |       |       |  |
|-------|-------|--|
| _____ | _____ | 1. Follow all Caterpillar facility safety standards when performing this task.   |
| _____ | _____ | 2. The crane's electrical system must be locked and tagged after the power on checks have been completed during the PM check.                    |
| _____ | _____ | 3. Gloves must be worn to check the wire rope.   |
| _____ | _____ | 4. A safety harness must be worn while in the bucket of the JLG.   |
| _____ | _____ | 5. A tripping hazard exists when moving around catwalk, while climbing around to check the various components and getting in and out of the cab. |

### Task Standards

- |       |       |  |
|-------|-------|--|
| _____ | _____ | 1. The hook must not show signs of cracks or excessive wear.                     |
| _____ | _____ | 2. The hook must not deviate more than 10 degrees in twist measurement.          |
| _____ | _____ | 3. There must not be more than one frayed wire in any five foot length of cable. |
| _____ | _____ | 4. The cable diameter must not be more than 1/16 inch reduced.                   |
| _____ | _____ | 5. All required safe practices must be demonstrated.                             |



## Evaluator's Sign-Off

The Learner has demonstrated safe work practices and competent performance of the task.

Evaluator: \_\_\_\_\_ Date: \_\_\_\_\_

Learner: \_\_\_\_\_ Clock No: \_\_\_\_\_