

## LIVE LINE TOOLS PROGRAM

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### PURPOSE / SCOPE

The purpose of the Winger Companies, herein referred to as Winger, Live Line Tools Program is to inform its employees of the dangers and procedures for working with live line tools.

### PROPER DESIGN AND CONSTRUCTION

Design of tools. Live-line tool rods, tubes, and poles shall be designed and constructed to withstand the following minimum tests:

- ✚ 100,000 volts per foot (3281 volts per centimeter) of length for 5 minutes if the tool is made of fiberglass-reinforced plastic (FRP), or
- ✚ 75,000 volts per foot (2461 volts per centimeter) of length for 3 minutes if the tool is made of wood, or
- ✚ Other tests that the employer can demonstrate are equivalent.

### EMPLOYEE RESPONSIBILITIES

- ✚ Each live-line tool shall be wiped clean and visually inspected for defects before use each day.
- ✚ If any defect or contamination that could adversely affect the insulating qualities or mechanical integrity of the live-line tool is present after wiping, the tool shall be removed from service and examined and tested according to paragraph (j)(2)(iii) of this section before being returned to service.

### MANAGEMENT AND SUPERVISION RESPONSIBILITIES

- ✚ Live-line tools used for primary employee protection shall be removed from service every 2 years and whenever required under paragraph (j)(2)(ii) of 1910.269 for examination, cleaning, repair, and testing.

### BIENNIAL INSPECTION AND TESTING

Live-line tools used for primary employee protection shall be removed from service every 2 years, and whenever required under paragraph (b)(2) of this section, for examination, cleaning, repair, and testing as follows:

- ✚ Each tool shall be thoroughly examined for defects.
- ✚ If a defect or contamination that could adversely affect the insulating qualities or mechanical integrity of the live-line tool is found, the tool shall be repaired and refinished or shall be permanently removed from service. If no such defect or contamination is found, the tool shall be cleaned and waxed.
- ✚ The tool shall be tested in accordance with paragraphs (b)(3)(iv) and (b)(3)(v) of this section under the following conditions:
  - ✚ After the tool has been repaired or refinished; and

After the examination if repair or refinishing is not performed, unless the tool is made of FRP rod or foam-filled FRP tube and the employer can demonstrate that the tool has no defects that could cause it to fail during use.

The test method used shall be designed to verify the tool's integrity along its entire working length and, if the tool is made of fiberglass-reinforced plastic, its integrity under wet conditions.

The voltage applied during the tests shall be as follows:

- ✚ 246,100 volts per meter (75,000 volts per foot) of length for 1 minute if the tool is made of fiberglass, or
- ✚ 164,000 volts per meter (50,000 volts per foot) of length for 1 minute if the tool is made of wood, or
- ✚ Other tests that the employer can demonstrate are equivalent.

## **SUMMARY**

The safety and well-being of our employees is our prime concern. This can be achieved through proper pre-job planning and workplace analysis. We encourage our employees to establish and maintain a safe working environment. This program is intended to help our employees become educated and maintain a better lifestyle.

**SOURCE CREDITS:**

U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) [www.osha.gov](http://www.osha.gov)

**DOCUMENT CONTROL:**

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