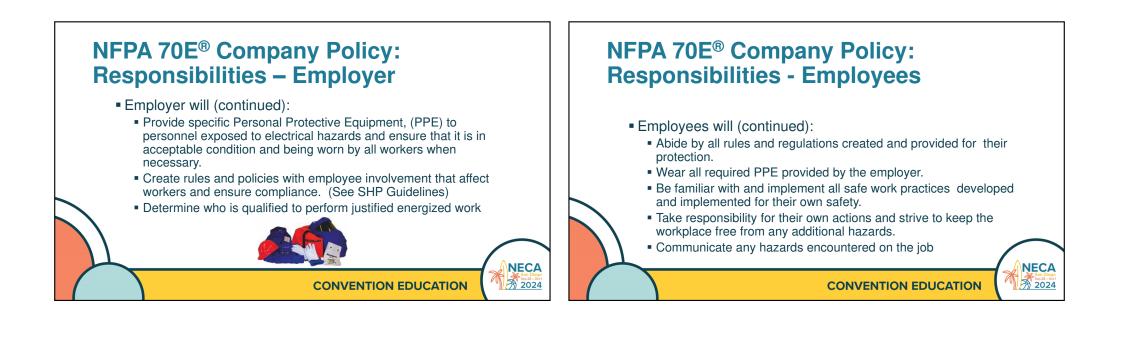
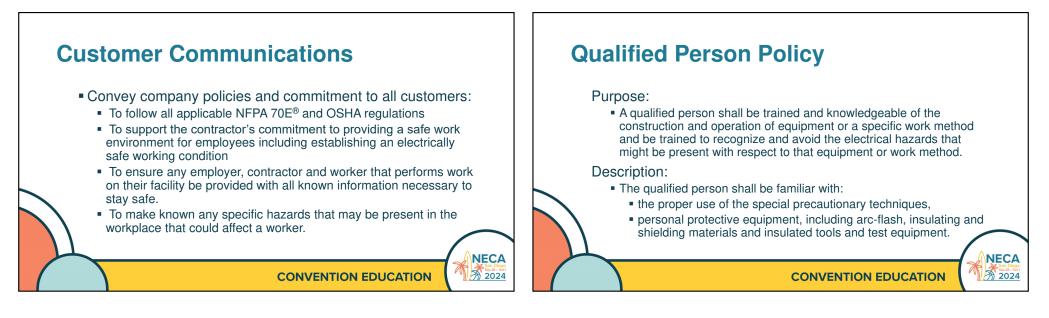
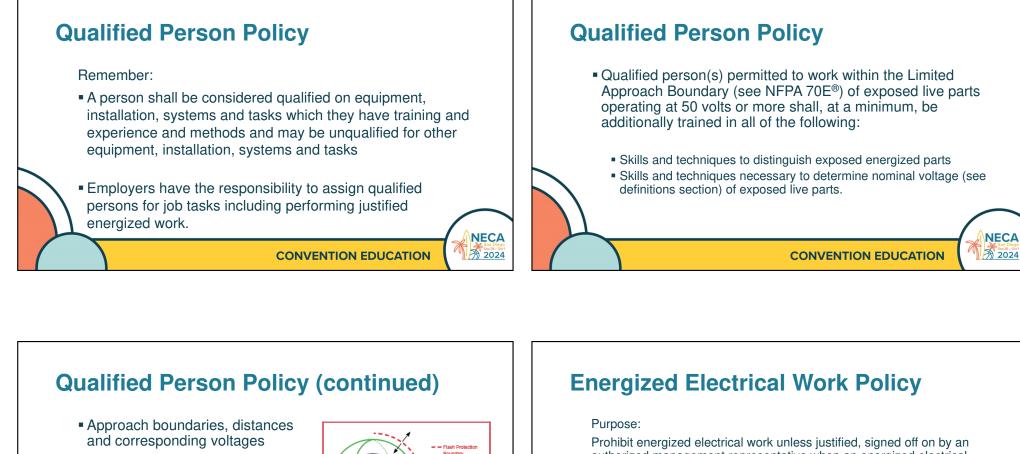




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- Decision-making process necessary to:
 - perform job safety planning
 - identify electrical hazards
 - assess the associated risk
 - select the appropriate risk control method

CONVENTION EDUCATION

Prohibit energized electrical work unless justified, signed off on by an authorized management representative when an energized electrical work permit is required in accordance with this policy and determined to capable of being performed safely.

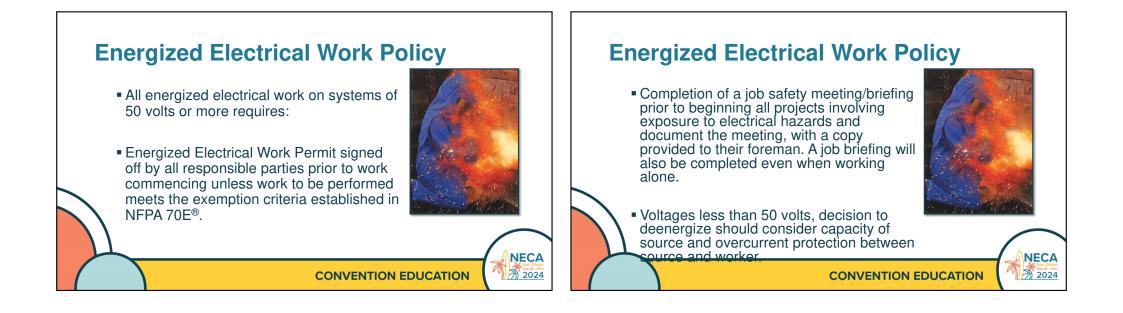
Description:

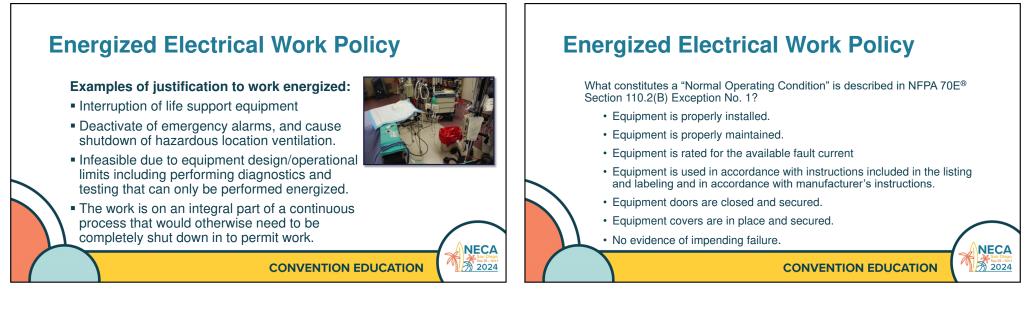
- All energized electrical work on systems of 50 volts or more must be justified in accordance with NFPA 70E[®] and OSHA as follows:
 - Deenergizing will cause additional or increased hazards.
 - Deenergizing is infeasible due to equipment design/operation limits.

CONVENTION EDUCATION

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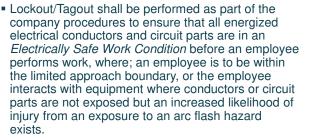
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Electrically Safe Work Condition: Lockout/Tagout (LOTO) Policy

Purpose:





Refer to company written program for detailed

procedures. (ex. NECA Guide to Lockout/Tagout

LOCKOUT/ TAGOU

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CONVENTION EDUCATION

Electrically Safe Work Condition: Lockout/Tagout (LOTO) Policy

Description:

 All employees shall be trained and have a copy of the company Lockout/Tagout (LOTO) Program. All qualified employees shall implement the LOTO program and verify an Electrically Safe Work Condition.

CONVENTION EDUCATION



Electrically Safe Work Condition: Lockout/Tagout (LOTO) Policy

Description:

- Employees shall achieve an Electrically Safe Work Condition.
- Determine all possible supply sources.
- Interrupt load current and open disconnecting device
- Verify blades are open and draw out-type circuit breakers fully withdrawn and disconnected.
- Release stored electrical and mechanical energy

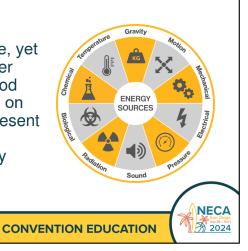
Apply lockout/tagout

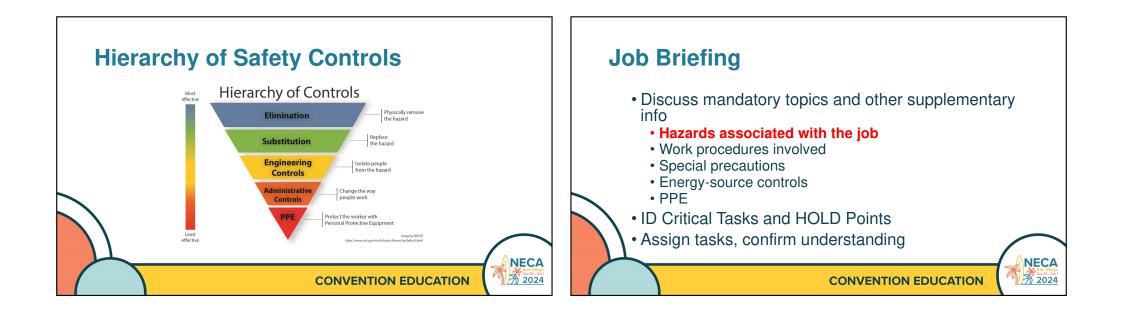
- Use rated test instrument to verify absence of voltage
- Apply temporary protective grounding equipment as needed

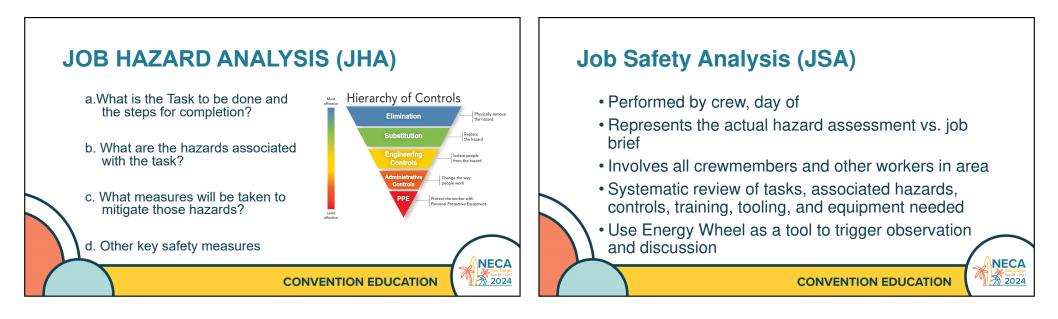
CONVENTION EDUCATION

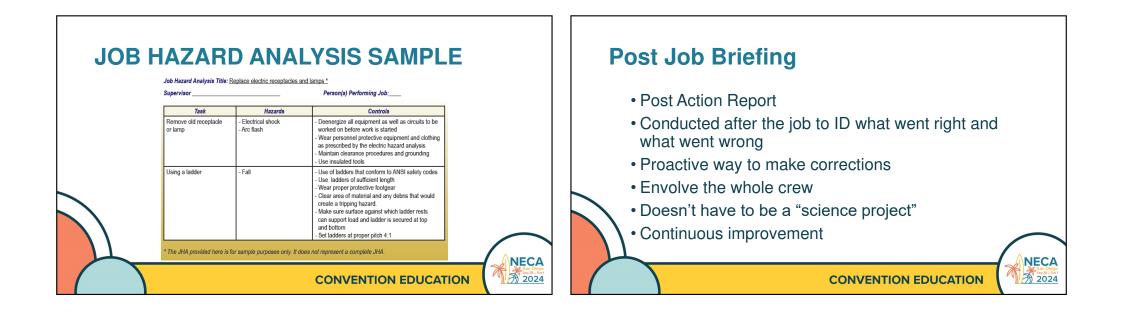


"The Energy Wheel is a simple, yet effective way to improve worker hazard recognition. This method focuses the worker's attention on the various types of energy present in the workplace rather than randomly attempting to identify workplace hazards."

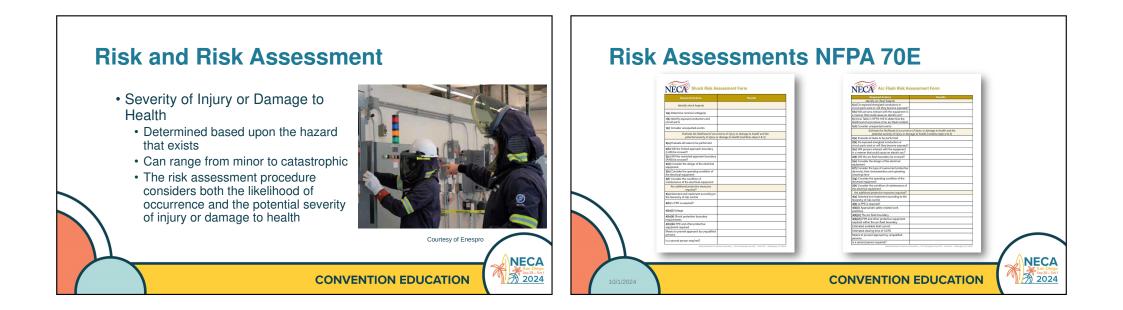












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OSHA 29 CFR 1926.20(b) Accident Prevention Responsibilities

- 1926.20(b)(1) It shall be the responsibility of the employer to initiate and maintain such programs as may be necessary to comply with this part.
- 1926.20(b)(2) Such programs shall provide for frequent and regular inspections of the job sites, materials, and equipment to be made by competent persons designated by the employers.

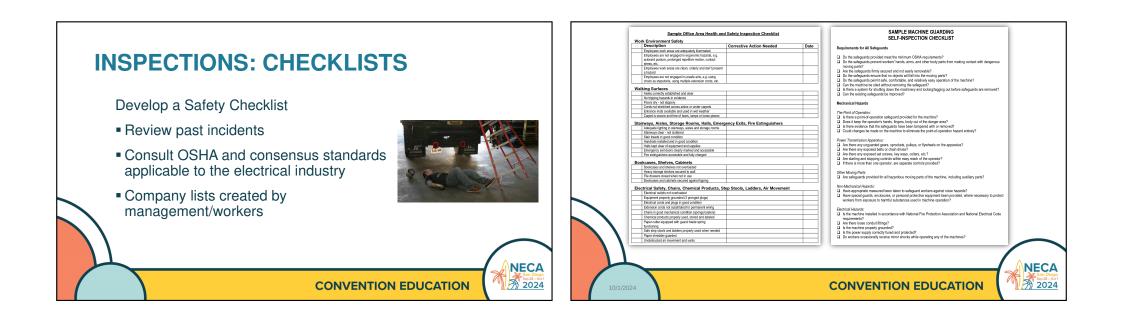
CONVENTION EDUCATION

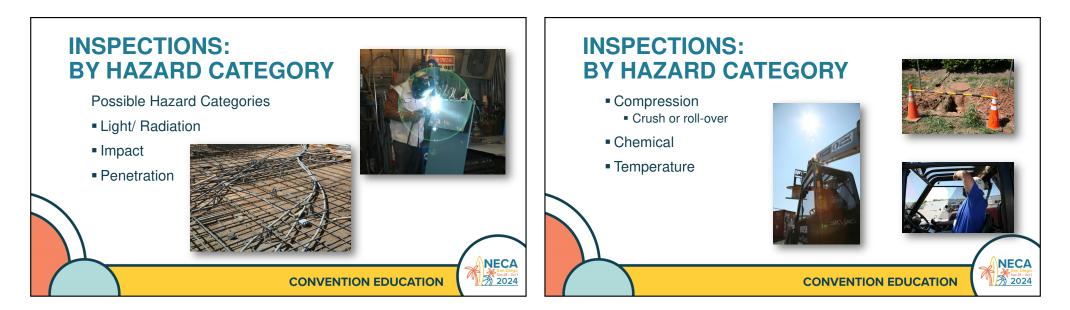
INSPECTIONS

Periodic inspections should be completed

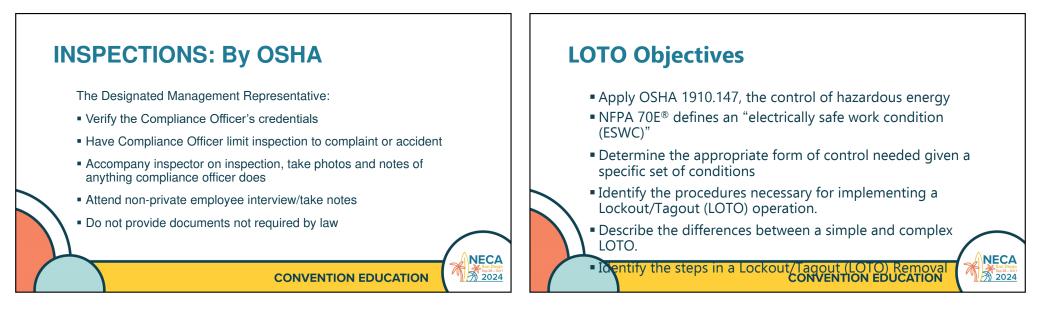
- Workers should inspect their work area daily
 - Checklists
 - List of hazard categories



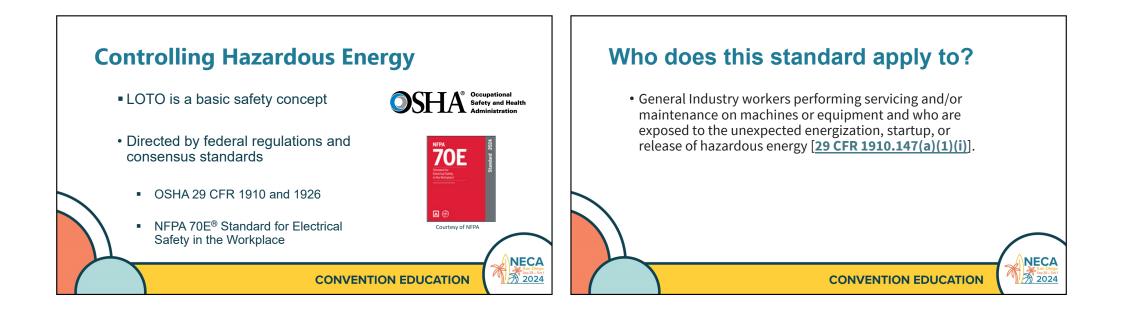


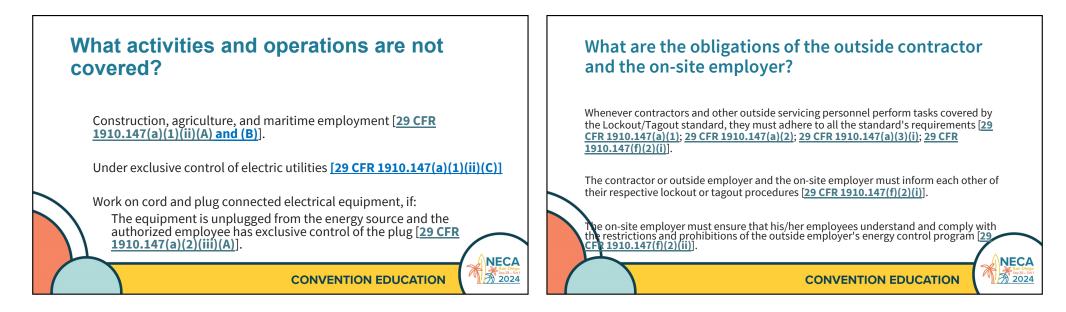




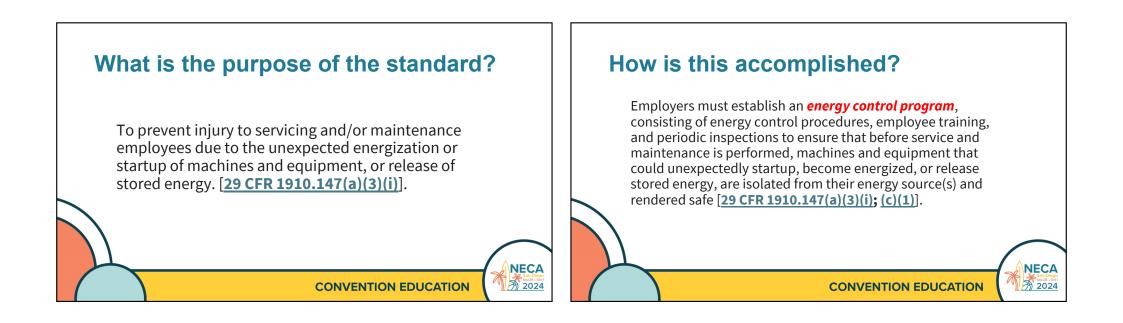


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29 CFR 1926, Subpart K Construction Lockout and tagging of circuits.

<u>1926.417(a)</u>

Controls. Controls that are to be deactivated during the course of work on energized or deenergized equipment or circuits shall be tagged.

1926.417(b)

Equipment and circuits. Equipment or circuits that are deenergized shall be rendered inoperative and shall have tags attached at all points where such equipment or circuits can be energized.

<u>1926.417(c)</u>

Tags. Tags shall be placed to identify plainly the equipment or circuits being worked on.

CONVENTION EDUCATION

Establishing Electrical Safe Work Condition (ESWC)

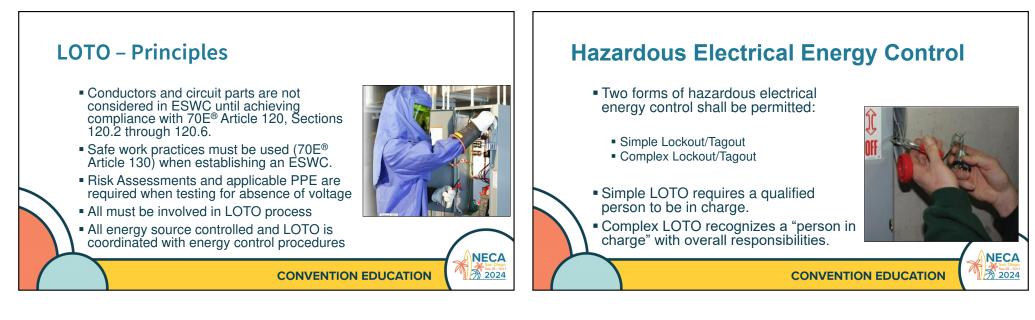
- 1.Lockout/Tagout Program
- 2.Lockout/Tagout Principles
- 3.Lockout/Tagout Equipment
- 4.Lockout/Tagout Procedures
- 5.Process for Establishing/Verifying an ESWC

CONVENTION EDUCATION

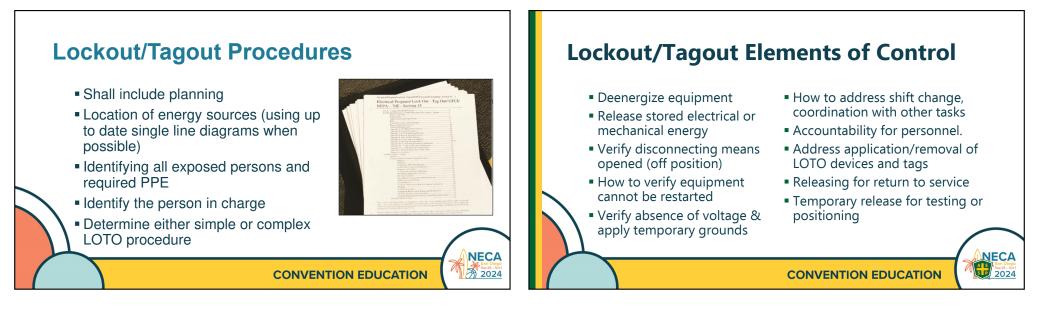
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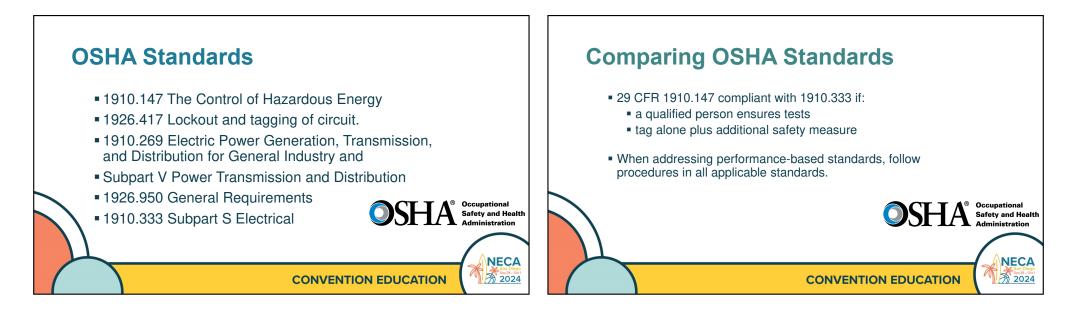


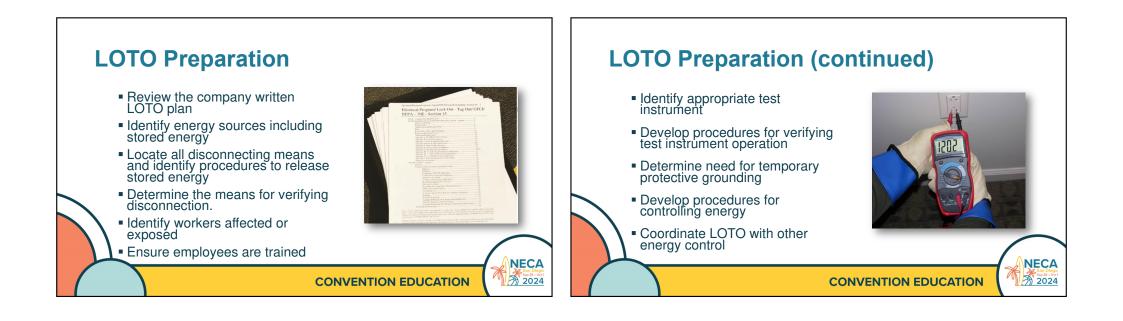












R	equired Determination	ons				Example of a Prescriptive Lockout/Tagout Written Program for Electrical Contractors Prescriptive Procedures are outlined in 29 CFR 1918.333(b) and 2024 NFPA 70E 130.6. See Note to 1918.333(b)(2)(b) that permits 1910.333(b) to be used as a written LOTO procedure. These prescription stype regulated in 1910.333(b) are supplemented with programment for 1826 in NSTA 752(202)	STEP # 3 1903.SM09/G00K/S Steret electric approximation might endanger personnel shall be consisted and grownike. If the decode lectric comparison might endanger personnel, Note: If the capacitor or associated explorator at enhanced in meeting this requirement, floy hall be transford a emproyment at enhanced on meeting this requirement, might and be transford a emproyment and endanger. NPTA '98': 1556(4) Mainess ensert classified mergy:	
	Purpose of lockout includes work to performed unqualified persons	Simple	Complex			<section-header><section-header><section-header><section-header><text><text><section-header><text><text><text><text></text></text></text></text></section-header></text></text></section-header></section-header></section-header></section-header>	STEP # 4 199.333(b)(2)(b)(0)) Stored an electrical energy in devices that could reconcipize checks's circuit parts shall be blocked or relieves the extent that the circuit parts could not be accidentarily emergy provide the above. NFFA 79E: DIAddy, Block or relieves stored nonedestrical energy in devices to the extent the circuit parts cannot be uninterlineally emergized by such devices. STEP # 4 190.3330(b)(2)(b)(7), 'Application of locks and large,''	
	Work involves multiple employees, crews, employers LOTO includes deenergizing more than one set circuits						199.3330(c)2000,03 A lock and stag and like placed on each disconnecting mean model observations are constrained by experiment on which were the lock perimeter and end to be the perimeter end to be constrained by the provide period perio	
	Work will involve multiple locations, energy different disconnecting means Job/task will extend beyond one work period						provides a lor of safety equivalent to thin detained by use of a lock. Examples of additional safety manare insoluble ferminod of an insolution grant of a source of the safety of the	
		CONVENTION	EDUCATION	San Diego Seg28- Oct 2024	88		CONVENTION EDUCATION	Als San Diego Seg 28- Od1 2024

