



ELECTRICAL SAFETY PROGRAM

WORKING TOGETHER FOR A SAFER WORKPLACE

Woodhead®

molex®

AUDIT CHECKLIST

This audit checklist is designed to help you perform an electrical safety audit of your facility. Though there may be multiple Woodhead® solutions to a particular non-compliant condition, only basic Woodhead part numbers are listed in this document. Contact your local Woodhead sales representative for expert assistance in choosing the best solution for you.

This checklist, and any safety seminar presented on behalf of Woodhead should be considered just one component of a thorough, well planned and executed safety program at your facility. When used and maintained properly under normal operating conditions, these Woodhead products comply with applicable COHSR and CEC standards.

WET/DAMP LOCATIONS

Portable Power, GFCI, Wiring Devices & Receptacles



- 1) Do we have wiring devices that are NOT identified for wet/damp locations?
- 2) Are receptacles being used that are NOT listed for this environment?

| | No | Yes | Solution |
|---|--------------------------|--------------------------|--|
| | <input type="checkbox"/> | <input type="checkbox"/> | Woodhead Ref. No. Order No. |
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | 14W47 130146-0031 15W47 130146-0060 14W47A143 130143-0134 |
| 2 | <input type="checkbox"/> | <input type="checkbox"/> | 60W47 130146-0129 60W14DPLX 130146-0131 20052-1M 130153-0126 |



- 3) Do we have 15 or 20 amp, 125 or 250 volt receptacles installed in wet locations that are NOT weatherproof with or without the attachment plug inserted?

| | No | Yes | Solution |
|---|--------------------------|--------------------------|--|
| | <input type="checkbox"/> | <input type="checkbox"/> | Woodhead Ref. No. Order No. |
| 3 | <input type="checkbox"/> | <input type="checkbox"/> | 60W47 130146-0129 60W14DPLX 130146-0131 |

Lighting



- 1) Are we using portable lighting in wet or conductive areas that is NOT low voltage?
- 2) Are we using portable hand lamps that are NOT identified for these locations?

| | No | Yes | Solution |
|---|--------------------------|--------------------------|-----------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | Woodhead Ref. No. Order No. |
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | 1621-12A 130105-0037 |
| 2 | <input type="checkbox"/> | <input type="checkbox"/> | 1601-12A 130105-0031 |

Strain Relief

- 1) Are strain relief devices identified for use in this environment NOT being used:
 - a) On flexible metallic conduit?
 - b) On flexible cable?

| | No | Yes | Solution |
|----|--------------------------|--------------------------|-----------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | Woodhead Ref. No. Order No. |
| 1a | <input type="checkbox"/> | <input type="checkbox"/> | 36370 130096-0034 |
| 1b | <input type="checkbox"/> | <input type="checkbox"/> | 36256 130097-0165 |

Cord Reels

- 1) Are we using cord reels that are NOT identified for these locations?

| | No | Yes | Solution |
|---|--------------------------|--------------------------|-----------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | Woodhead Ref. No. Order No. |
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | 9224 130083-0224 |

Pushbuttons

- 1) Do we have pushbutton pendants that are NOT identified for wet locations?

| | No | Yes | Solution |
|---|--------------------------|--------------------------|-----------------------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | Woodhead Ref. No. Order No. |
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | 5056-1 130126-0256 |

Lighting



- 1) Do we have portable lighting used in areas classified hazardous or explosive that are NOT identified for use in that area?
- 2) Is this area also wet or conductive?

| | No | Yes | Solution Woodhead Ref. No. | Order No. |
|---|--------------------------|--------------------------|-------------------------------|----------------------------|
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | 61430A143 1090-HZA143 | 130104-0042 130104-0030 |
| 2 | <input type="checkbox"/> | <input type="checkbox"/> | 1635-12A 1090-HZ12A163 | 130105-0045 130104-0022 |

Grounding & Bonding Sets



- 1) In areas where we transfer flammable liquids, are we missing the means to effectively ground and bond the containers?

| | No | Yes | Solution Woodhead Ref. No. | Order No. |
|---|--------------------------|--------------------------|-------------------------------|----------------------------|
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | 141006 143050 | 130128-0087 130177-0005 |

Cord Reels

- 1) Are we using cord reels in areas classified hazardous or explosive that are NOT identified for use in that area?

| | No | Yes | Solution Woodhead Ref. No. | Order No. |
|---|--------------------------|--------------------------|-------------------------------|-------------|
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | 9228HZ | 130085-0414 |

Strain Relief



- 1) Do enclosures have improper strain relief:
 - a) On flexible metallic conduit?
 - b) On flexible cable?
- 2) Is flexible cord subject to excessive bending, abrasion or other damage?

| | No | Yes | Solution Woodhead Ref. No. | Order No. |
|----|--------------------------|--------------------------|-------------------------------|----------------------------|
| 1a | <input type="checkbox"/> | <input type="checkbox"/> | 36370 | 130096-0034 |
| 1b | <input type="checkbox"/> | <input type="checkbox"/> | 36505 36256 | 130097-0260 130097-0165 |
| 2 | <input type="checkbox"/> | <input type="checkbox"/> | 36505 36256 | 130097-0260 130097-0165 |

Cordsets

- 1) Do we have cable or extension cords with cuts or abrasions?
- 2) Have unqualified personnel serviced or fabricated extension cords?
- 3) Are extension cords used with portable tools other than 3-wire, hard or extra-hard service rated cable?

| | No | Yes | Solution Woodhead Ref. No. | Order No. |
|---|--------------------------|--------------------------|-------------------------------|-------------|
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | 1447A143 | 130143-0095 |
| 2 | <input type="checkbox"/> | <input type="checkbox"/> | 1447A143 | 130143-0095 |
| 3 | <input type="checkbox"/> | <input type="checkbox"/> | 1447A143 | 130143-0095 |

Portable Power, GFCI, Wiring Devices & Receptacles

- 1) Are personnel using non-permanent 15, 20, or 30 amp, 125 volt receptacles without GFCI protection?
- 2) Are enclosures missing cover plates, knockouts, or do they have openings in them?
- 3) Are any portable outlet boxes in use NOT listed as portable (e.g., metallic boxes)?

| | No | Yes | Solution Woodhead Ref. No. | Order No. |
|---|--------------------------|--------------------------|--------------------------------|---|
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | 3080-GFI 15050-1 30051-1 | 130137-0180 130153-0019 130153-0163 |
| 2 | <input type="checkbox"/> | <input type="checkbox"/> | 3000 | 130137-0087 |
| 3 | <input type="checkbox"/> | <input type="checkbox"/> | 3000-1A143 | 130137-0095 |

Portable Power, GFCI, Wiring Devices & Receptacles



4) Are pendant applications (flexible cord drop from the ceiling without structural support) using boxes that are NOT listed for pendant applications?

| No | Yes | Solution |
|--------------------------|--------------------------|-----------------------------|
| | | Woodhead Ref. No. Order No. |
| <input type="checkbox"/> | <input type="checkbox"/> | 3000-1A143 130137-0095 |



5) Do we have portable GFCI's with NO open-neutral sensing relay? (All portable GFCI's that are UL Listed have this important safety feature)

6) Are we an industrial establishment using receptacles to power equipment that:

a) Would create a greater hazard if power was interrupted (such as an electric air supply for personnel working in a toxic environment), OR

b) Is NOT compatible with GFCI protection? If so, it may require use of the Assured Equipment Grounding Conductor Program instead of GFCI's.

| No | Yes | Solution |
|--------------------------|--------------------------|-----------------------------|
| | | Woodhead Ref. No. Order No. |
| <input type="checkbox"/> | <input type="checkbox"/> | 32G15A123 130135-0333 |
| <input type="checkbox"/> | <input type="checkbox"/> | 6a 1547GCMA143 130143-0164 |
| <input type="checkbox"/> | <input type="checkbox"/> | 6b 1547GCMA143 130143-0164 |

Lighting

1) Are we using portable lighting:

a) With a NON-polarized or NON-grounded plug?

b) With cable that is NOT hard- or extra-hard-service-rated?

c) With a handle that is NOT of molded or insulating material?

d) Without a substantial guard attached to the handle?

e) With a metal guard that is NOT grounded through the power supply cord?



| No | Yes | Solution |
|--------------------------|--------------------------|---|
| | | Woodhead Ref. No. Order No. |
| <input type="checkbox"/> | <input type="checkbox"/> | 1a 1083-3 130108-0106 106SA163 130102-0102 |
| <input type="checkbox"/> | <input type="checkbox"/> | 1b 1083-3 130108-0106 106SA163 130102-0102 |
| <input type="checkbox"/> | <input type="checkbox"/> | 1c 1083-3 130108-0106 106SA163 130102-0102 |
| <input type="checkbox"/> | <input type="checkbox"/> | 1d 1083-3 130108-0106 106SA163 130102-0102 |
| <input type="checkbox"/> | <input type="checkbox"/> | 1e 1083-3 130108-0106 106SA163 130102-0102 |

2) Do we have areas where vehicles are serviced and portable lighting is used? Hand lamps must be non-switched and without auxiliary outlet. Exterior surfaces must be non-conductive. To avoid classification as Class I, Div. 1, a light must be supported so that it will not reach a classified location (within 18 inches of the floor)

| | | |
|--------------------------|--------------------------|------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | 2 980A-118 130091-0029 |
|--------------------------|--------------------------|------------------------|

3) Do we currently use stringlights that:

a) Have sockets without guards?

b) Are suspended by a power cord NOT designed for suspension?

c) Are NOT using 2 or 3-wire jacketed cable?

| | | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | 3a 302SRL 130111-0024 5000 130111-0027 323123 130106-0104 |
| <input type="checkbox"/> | <input type="checkbox"/> | 3b 302SRL 130111-0024 5000 130111-0027 323123 130106-0104 |
| <input type="checkbox"/> | <input type="checkbox"/> | 3c 302SRL 130111-0024 5000 130111-0027 323123 130106-0104 |

Cord Reels

1) Could we use cord reels to better manage our cords?

| No | Yes | Solution |
|--------------------------|--------------------------|-----------------------------|
| | | Woodhead Ref. No. Order No. |
| <input type="checkbox"/> | <input type="checkbox"/> | 1 945-3 130090-0009 |

Pushbuttons

1) Do we have pushbutton enclosures without proper strain relief, with damaged cable, or exposed live conductors?

| No | Yes | Solution |
|--------------------------|--------------------------|-----------------------------|
| | | Woodhead Ref. No. Order No. |
| <input type="checkbox"/> | <input type="checkbox"/> | 1 4004 130126-0188 |



400 THOUSAND INJURIES

540 DEATHS

21 ELECTROCUTIONS



In 2007, there were 400,000 occupational injuries and illnesses among Canadian workers. Approximately 5 of every 100 workers experienced a job-related injury or illness and 540 workers lost their lives on the job; 21 deaths were due to electrocution.

**FIRST
+
AID**

**EMERGENCY
DEPARTMENT**

Working Together For A Safer Workplace

Since 1922, the industry has relied on Woodhead product solutions from Molex to develop and manufacture the highest quality electrical safety products for demanding environments.

Canadian Electrical Code

The CEC was created and is amended every 3 years by the Committee on the Canadian Electrical Code, Part 1. Similar Committees create many standards that are used for safety in all aspects of industry. This code is adopted by Provincial Authorities Having Jurisdiction then legislated into law in each province, in part or in whole.

COHSR

The Canadian Occupational Health and Safety Regulations come from the Canadian Labour Code and are commonly called the Statutes of Regulation or SOR. These SORs are intended to provide workers in specific areas direction on how to work safely and have the proper safety equipment to maintain a safe work environment. Although not directly measured, the COHSR has been a major contributor to the reduction on work-related injuries in Canada.

Employers

Employers ultimately have the legal responsibility to provide a safe workplace for their employees.



To request an on-site electrical safety seminar, contact your local Woodhead representative or distributor. Or E-mail SafetySeminar@molex.com

United States
Lincolnshire, IL
800.225.7724

Canada
Waterloo, Ontario
519.725.5136

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