

# HAZARD ALERT

## Shocking Electrical Factoids: POP QUIZ

### Which are true or false?

| True | False | Question  |
|------|-------|---|
|      |       | A shock of 100 volts can be just as deadly as a shock of 10,000 volts   |
|      |       | People have been electrocuted by household appliances using currents of 110 volts.  |
|      |       | In the workplace, workers have been electrocuted by as little as 42 volts of direct current.                                |
|      |       | The real measure of shock's intensity lies in the amount of current (amperes) forced through the body, and not the voltage. |
|      |       | Any electrical device used on a house wiring circuit can, under certain conditions, transmit a fatal current.               |

Answer: All are TRUE!

At currents as low as 60 to 100 milliamperes, low-voltage (110-220 volts), 60-hertz alternating current traveling through the chest for a split second can cause the heart to go into ventricular fibrillation (VF). VF is a life-threatening irregular heart rhythm that results in the pumping chambers in your heart (the ventricles) to quiver uselessly, instead of pumping blood. Death will follow in a few minutes without *immediate* first aid and medical intervention such as CPR and Defibrillation.



### Questions? Our Safety Professionals have answers!

Every business has its own unique challenges and opportunities. So 1Life creates solutions, geared to your specific risks, resources and budget to help you make sure your people and your business are protected from workplace related loss and liability.

[Contact Us to learn how!](#)

## Requirements for Electrical Work in Manitoba:

- ✓ Electrical work may only be performed by a qualified electrical worker
- ✓ Live electrical work may only be performed if:
  - it is not practicable to lockout AND;
  - a risk assessment has been performed
  - safe work procedures have been developed in writing
  - workers are trained in the safe work procedures
  - a standby worker trained in emergency response procedures is present while the work is being performed.

*NOTE: Any reference to the Manitoba Workplace Safety and Health Act and Regulation is for convenience sake only. The original text must be consulted for all intents and purposes of applying the law. Date of last revision and document confirmed current Sep 12, 2016. If you believe this document is out of date, please contact us.*

## RECORD OF HAZARD ALERT

|                       |                             |
|-----------------------|-----------------------------|
| <b>Company Name:</b>  | <b>Work Location Dept.:</b> |
| <b>Talk Given by:</b> | <b>Date / Time:</b>         |

|   |
|---|
| <b>Results of inspection, demonstration or other activity or suggestions during talk:</b> |
|   |
|   |
|   |

| <b>List of All Employees Who Attended the Safety Talk:</b> |                  |
|--|------------------|
| <b>Name (PRINT)</b>  | <i>Signature</i> |
| 1.   |                  |
| 2.   |                  |
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Signed: \_\_\_\_\_ Position Held: \_\_\_\_\_