

PLUGGED IN

SUMMER 2022



Code Conundrum | p.19

Can you solve the
Code Conundrum?



Worth Knowing update | p.12

Overview of new
OESC Changes



Spotlight on Common Defects | p.18

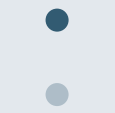
Updated requirements
for GFCI receptacles



**Electrical
Safety
Authority**



— 2021 Ontario
Electrical Safety Code
requirements
you —
— need to
know —



Convictions

UNLICENSED ▼

Ontario Corporation #2502387 o/a Home Renovations & General Contracting Group Inc.

Renovations at residence – 1 site

- \$3,000 fine, plus \$750 victim surcharge
– No EC license
- \$1,500 fine, plus \$375 victim surcharge
– Failure to Apply for Permit

Muslim Rizaie Barat, as Director of Home Renovations & General Contracting Group Inc., failed to take all reasonable care to prevent the Corporation from committing an offence. More specifically, Barat failed to file with ESA an application for inspection.

- \$0 fine

Sedq Majidi, being the contractor, failed to file with ESA an application for Inspection.

- \$0 fine

Sedq Majidi, as Director of Home Renovations & General Contracting Group Inc., failed to take all reasonable care to prevent the Corporation from committing an offence. Specifically, failed to file with ESA an application for Inspection.

- \$0 fine

Preston Fuller

Advertised electrical services while unlicensed on Kijiji platform.

- \$500 fine, plus \$110 victim surcharge
– Advertising

Brent Fiorini

Renovations at multiple residences – 6 sites

- \$6,000 fine, plus \$1,500 victim surcharge
– No EC license
- \$1,500 fine, plus \$375 victim surcharge
– Failure to Apply for Permit



Convictions (Continued)

LICENSED ▼

Bakhtiyar Sadigzade

Advertised electrical services while unlicensed on Kijiji platform.

- \$500 fine, plus \$110 victim surcharge – Advertising

Jian Wei Yin

Did utter a False Certificate of Inspection – 1 installation – electric vehicle installation

- Sentencing hearing to be determined June 24, 2022

ESA worked effectively with LDCs and LECs to safely restore power across Ontario



Since the massive storm hit on May 22nd, ESA has been working very closely with LDCs and LECs to safely restore power to Ontarians. For all of us, public safety is the top priority. Our inspectors continue to work closely with our partners to ensure storm damaged homes are reconnected in a safe manner to avoid the risk of electrical shock or fire, or further property damage.

We are all very thankful that there were no electrical-related injuries although our thoughts are with families who lost loved ones as a result of the storm.

ESA was continually updating public messaging to push out safety messages through LDCs and to ensure homeowners hire an LEC if repairs are required.

To assist with this electrical emergency, ESA's Customer Service Centre was open Saturdays and Sundays for the last 3 weeks. We are still experiencing high call volumes. Please call 1-877-372-7233 or go online to esasafe.com for more information.

We would like to sincerely thank everyone in the LDC and LEC community who pitched in to get Ontarians powered back up as quickly as possible.



Energy Storage Systems (ESS) in Residential Occupancies

As we continue the conversation on ESS (please see article published winter edition of PluggedIn), the ESA bulletin on ESS ([64-8-0](#)) has been published to provide an interim direction on the installation requirements in residential occupancies. Meanwhile, ESA is participating on the CSA's CE Code Section 64 subcommittee where the development of a proposal is ongoing. This proposal is meant to change Rule 64-918 and add a new subsection specific to Battery ESS.

HERE ARE THE MAIN TOPICS IN ESA BULLETIN

- **Definitions of ESS usage.** The two definitions for Residential and Non-Residential Use ESS will not be applicable in Ontario. The newly introduced definitions do not fully align with the relevant product standards and as such, create some restrictions on installations of ESS that are not intended by the product standards
- **ESS inside dwelling units.** Rule 64-918 2) prohibits installing ESS utilizing batteries below grade including basements of dwelling units. Additionally, Rule 64-918 4) prohibits ESS with a storage capacity greater than 1kWh or utilizing Li-Ion batteries from being installed in dwelling units. ESA will consider a **deviation request** from the location and separation requirements specified in Rule 64-918 2) and 4), when ESS are installed in dwelling units and all of the conditions listed in the bulletin are satisfied. Some of these conditions are; requiring that the room where the ESS is installed has a fire rating not less than 1 h and equipped with an interconnected smoke alarm or detector; individual ESS capacity does not exceed 20 kWh and multiple ESS aggregate capacity does not exceed 40 kWh.
- **ESS inside attached garages.** Notwithstanding Rule 64-918 6), ESS will be permitted to be installed in attached garages of dwelling units with storage capacity and separation spacing limitations provided that a separation of not less than 1 m from doors and windows are achieved as per UL 9540 requirements.
- **Detached garages, storage buildings or freestanding structures associated with a dwelling unit.** Rule 64-918 7) b) permits ESS to be installed in or on a detached garage, storage building, or free standing structure, with spacing and capacity limitations. Subrule 7) b), omits requirements to space ESS at least 1 m apart when there are multiple installed creating a potential safety hazard.



Energy storage systems (ESS) in Residential Occupancies (Continued)

In addition to the requirements of 64-918 7) b) ESS shall be permitted to be installed in or on detached garages, storage buildings or free standing structures associated with a dwelling unit where spaced not less than 1m apart from each other (or in accordance with the installation instruction).

- **Clearance to egress paths and entrance/exit doors at dwelling units.**

The intent of Rule 64-918 9) is that batteries forming part of an ESS located outdoors not impede egress from a building and not be located closer than 3 m to a path of egress or entrance or exit doors of a building. This direction will apply to all ESS installed outdoors (whether residential or other occupancies)

- **ESS meeting ANSI/CAN/UL 9540A.**

ESS using batteries that meet the additional testing requirements of ANSI/CAN/UL 9540A for evaluating thermal runaway fire propagation are required to be marked "Suitable For Use In Residential Dwelling Units Where Permitted" or "This equipment meets the cell level performance criteria of UL 9540A". This type of ESS is intended for installation in the living or habitable spaces of residential occupancies (where permitted). At this time, ESA is not aware of any products approved for use in Canada bearing these markings.

ESA Bulletin 64-8-0 is intended to harmonize with the proposed changes for CE Code 2024 and ANSI/CAN/UL 9540 standard and address the gaps and inconsistencies between the Code and the product standard.



Director's Order Amends the Ontario Electrical Safety Code to Reference 'Building Opportunities in the Skilled Trades Act'

The 2021 Ontario Electrical Safety Code (OESC) included references to the repealed *Ontario Colleges of Trades & Apprentices Act* (OCTAA), as the 2021 OESC was adopted into regulation prior to the repealing of OCTAA.

Hence, there is a need for a Director's Order to align specific references in the OESC with the changes to the legislative framework governing the trades in Ontario. The Director's Order makes consequential amendments to the OESC. The Director's Order replaces all references to OCTAA in the OESC to reference the *Building Opportunities in the Skilled Trades Act, 2021* (BOSTA), which came into effect on Jan. 1, 2022.

These references need to be updated to reflect current legislation in order to maintain alignment with the legislative framework for the trades in Ontario. This Director's Order is posted for public information. Please check the [Ontario Electrical Safety Code section](#) of ESA's website for more information. The Director's Order came into effect on the same day as the 2021 OESC, which is May 5, 2022.

Message from the Director of Licensing



by Soussanna Karas,
Director of Licensing

In this issue I would like to update you on a very important project that is currently ongoing in our Licensing Department: the Competency Profile project

COMPETENCY PROFILE

As many of you may have heard by now, ESA, in partnership with the ECRA Advisory Council (ECRA), has launched a project to create a Competency Profile for Master Electricians (MEs). The result of the project will be a set of competencies (i.e. skills, knowledge and attributes) that an individual must demonstrate in order to be granted and maintain an ME licence.

The project is led by external Competency Consultants who are working with the subject matter experts (including MEs, continuing education experts, and representatives from the ESA) to develop the profile. About a month ago, ESA invited MEs in good standing to volunteer on the SME Working Group.

We received a large number of responses and would like to thank those who submitted their names. The Working Group has been formed and is already hard at work.

Please note that once the first draft of competencies is developed, we will be sending out a survey to all licensed MEs asking them to review and provide feedback. The survey will be distributed in September, 2022, via email, so please make sure you have a valid email on file by contacting our Licensing team via: esa.licensing@electricalsafety.on.ca.

Once developed, the Competency Profile will be used as a foundation for making decisions with respect to:

- Approval of educational programs
- Providing advice/guidance to MEs
- Developing standards and policies (such as Guidelines and Standards of Conduct)
- Updating ME exam questions and related requirements
- Determining continuing education requirements

The development of the ME competency profile is truly an industry led project, It will allow our MEs to create a list of competencies to further define and increase the professionalism, skills and judgement required to operate safely and ethically.



UNDERSTANDING THE HONESTY AND INTEGRITY LICENSING REQUIREMENT

Honesty and Integrity are two qualities integral to conducting and running a successful business, but did you know that as a licence holder, these characteristics are a requirement to maintain your licence?

As outlined in Section 113.2(2)(d) of the Electricity Act, 1998, a licence may be suspended or revoked if the Director has reason to believe that the licence holder will not conduct themselves with honesty and integrity or in accordance with the principle of protecting consumers.

Examples of this could include but are not limited to:

- Charging a customer for a permit of work but not obtaining one.
- Charging a customer for work not performed.
- Abusive, unprofessional or dishonest language or conduct.
- Taking monetary advantage of a customer.
- Purposefully misrepresenting the scope of electrical work or gaming of the Risk-Based Oversight Inspection system.

- Failing to finish the work contracted and paid for.
- Failing to correct defects resulted from the work performed.

ESA's Licensing Department has a responsibility to review each consumer complaint received and conducts an impartial assessment of the facts in every instance; if a complaint is found to be credible, compliance action will be issued against the licence of the Electrical Contractor or Master Electrician. The action taken may vary from education, training, issuance of terms and conditions or licence suspension or revocation.

To familiarize yourself with the compliance process along with the nine categories that determine licence eligibility and compliance actions (section 113.2(2) of the Electricity Act, 1998), please view the Standards of Conduct and Guidelines for Licence Holders at [Standards of Conduct and Guidelines for Licence Holders - Electrical Safety Authority \(ESA\) \(esasafe.com\)](#).



Kijiji Partnership in Enforcement Continues

As previously shared, the partnership is aimed at reducing unlicensed electrical contracting activity on Kijiji by proactively searching for ads posted by unlicensed electrical contractors and issuing a Notice of Violation (NOV) advising the ad holder that they are in contravention of the Electricity Act.



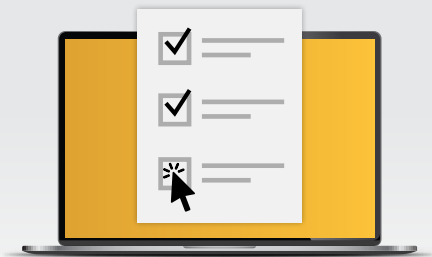
During last fiscal period, the Regulatory Compliance Program staff issued 1,015 Notice of Violations (NOV) to businesses/individuals who advertised electrical services on Kijiji.

The first NOV resulted in a 69% decrease in ads posted by unlicensed contractors. After issuing two NOVs, Kijiji removes the ad(s) upon ESA's request, and upon removing the ad, Kijiji provides an educational message to the ad holder on the licensing and notification requirements. A total of 674 ads were removed.

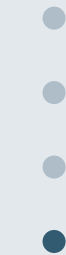
Those that repeatedly failed to bring themselves into compliance were escalated for further enforcement action. A total of 56 investigations were initiated and 14 convictions were granted by the courts.

In addition to educating and directing those that post ads offering to perform electrical work without a licence, Kijiji continues to post banner ads promoting the requirements to hire a Licensed Electrical Contractor and obtain a Certificate of Acceptance from ESA.

ESA ANONYMOUS ONLINE REPORTING



The anonymous [reporting tool](#) available on ESA's website for reporting of instances of a company or people operating electrical contracting businesses without an Electrical Contractor Licence, and cases where ESA licence holders fail to meet the licence requirements. Regulatory Compliance staff reviewed 1627 online reports of non compliance in FY22, which was a **114% increase** from FY21.



Licensing at a Glance



UNLICENSED CONTRACTOR ACTIVITY

1,396 Notices of Violation

103 Number of Investigations

48 Number of Convictions

\$81,250

Total Fines
(including suspended sentences)



LICENSED ELECTRICAL CONTRACTORS

9,481 Licensed Electrical Contractors

15,208 Master Electricians

90 Licensed Suspended

15 Licenses with Conditions

DID YOU KNOW?

If the owner of the Licenced Electrical Contractor (LEC) business is not the Designated Master Electrician (DME), the LEC must employ a DME. This means having the DME on a payroll,

as an employee. Arrangements such hiring DME as part-time contract or independent contractor are not compliant with the requirements of the Regulation 570/05.

New Mapping Tool Improves Inspection Scheduling and Communication to Customers

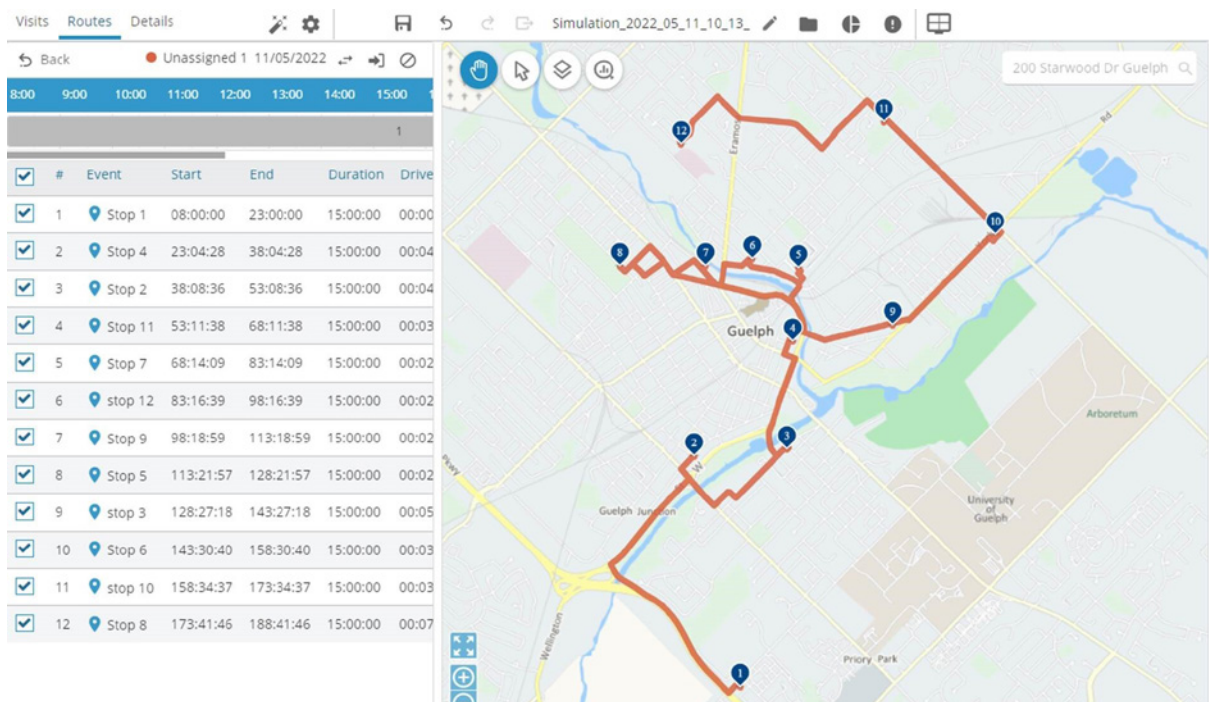
In the summer of 2021, ESA implemented a new mapping tool in certain areas of the province that provides Inspectors with a flexible system for planning inspection routes and enables ESA to communicate inspection timelines with customers.

The Inspector mapping tool enables ESA Inspectors, to plan their day and allows management of emergencies or changes in schedule to help ensure electrical inspections take place in a timely fashion.

One of the key benefits of the new system is that it offers improved communication tools so Inspectors can let customers know when they will be arriving, via text or email message.

The site contact could receive an email or text in the morning proposing a time window when the Inspector is expected to arrive. The site contact may receive another message when the Inspector is on their way to the site.

This will help customers plan out the day and ensure that the appropriate contact is on site to meet the Inspector when they arrive.



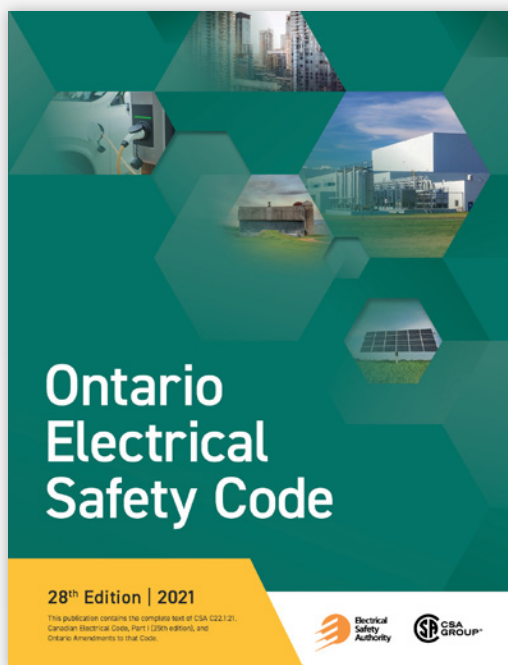
UNDERSTANDING CHANGES TO THE 2021 ONTARIO ELECTRICAL SAFETY CODE

ESA launched the sixth episode in its Grounded in Ontario podcast on Feb. 22, 2022. In this episode, Josie Erzetic, ESA's President & CEO chats with Nansy Hanna, Senior Director of Engineering and Regulations, ESA who highlights the important changes to the 2021 OESC. Hanna says, "keeping up with OESC changes is necessary for all LECs and others working in the electrical sector, such as designers and engineers."

"Safety is paramount. End-user's of electricity flip the switch and the light turns on and they take it for granted that it's safe," she said. "But, the people who are doing the installation – the LECs, and ESA who are involved with inspections and OESC development – we do not take it for granted. Collectively, we all work to make sure all installations are safe."

In the episode, Hanna talks through changes relating to electric storage systems, powerline safety and worker safety.

One of the new OESC rules will require all outdoor receptacles located within 2 metres above finished grade to be protected by a Ground Fault Circuit Interrupter, or GFCI. Right now, it's only required for residential buildings, but the updated OESC would apply that rule to all types of installations including commercial buildings.



"If someone is hanging lights for the holidays, if they are plugging in inflatables, if you are using tools outside, this new requirement will ensure safety for the worker and the people interacting with the installations," Hanna said.

Another OESC update addresses an all-too-common tragedy: barn fires. There are eighty barns fires a year, and some fires claim the lives of livestock living on farms, which can be devastating to farmers. A new series of OESC rules within Section 22 will ensure farms housing livestock will be designed to account for the wet and corrosive environments in these buildings.



UNDERSTANDING CHANGES TO THE 2021 ONTARIO ELECTRICAL SAFETY CODE (Continued)

POWERLINE AND WORKER SAFETY

The new OESC will also address powerline safety concerns. Hanna touches on two incidents where two lives were lost due to structures being erected too close to existing customer-owned powerlines. The OESC has been updated to stop this safety issue from recurring.

One last major change that Hanna highlighted was a shift in OESC requirements pertaining to 'e-houses', or manufactured structures that house electrical equipment. The OESC requires 'e-houses' that contain transfer equipment to have one receptacle that uses an alternate power supply. Hanna said this will work to ensure that workers can safely get power in these structures.

CLIMATE CHANGE AND ENERGY STORAGE SYSTEMS

The OESC has been updated to deal with the changing environment in many ways. One is by addressing the impact of climate change on electrical systems. "Everyone has been noticing the impact of climate change," Hanna said. "And there was a task force set up under CSA to look at impacts and review all standards."

The task force resulted in several changes to the OESC. Definitions for 'flood hazard zones' and 'flood elevation' were added to the OESC – helping to guide LECs in these areas. If you complete an installation in a flood hazard zone and that is below flood elevation, branch circuits need to be protected by ground fault circuit interrupters. In addition, LECs need to ensure receptacles for sump pumps are installed above flood elevation.

Finally, new OESC sections are included to keep up with new technologies. An entire OESC sub-section dedicated to address the increased number of installations of Energy Storage Systems (ESS). It will give guidance on everything from marking to disconnecting means to where ESS can be located.

Although the OESC is a technical document, it's not disconnected from the environment and what's happening around us," Hanna said. "It reflects what's changing around us."

All of the Grounded in Ontario podcasts are located [here](#) on the ESA website. If you haven't already, please make sure to share with your teams and peers. Anyone can subscribe and listen through [Apple](#), [Spotify](#), [Amazon](#) or [Google](#).

Promoting Electrical Safety through 21st Century Skills

ESA is harnessing 21st-century skills to promote electrical safety. The lightning pace of today's modern markets inspires us to leverage critical thinking, creativity, information, media and technology literacy to develop training solutions that support our mandate.

The Gold Hermes Creative Award recently granted to ESA's *Principles of Electrical Safety in the Workplace* course is a testament to our efforts to operate as a modern regulator and our commitment to bringing electrical safety education to Ontarians in new and engaging formats. The award was granted in the category Electronic Media / Social Media / Interactive Media | Web Element | 116c. Web-based Training. The course consists of a multi-media rich online experience that outlines planning and assessment approaches to establish workplace electrical safety, for the protection of workers, by establishing methods to inform safe work practices.

Developing an online course of this calibre is arduous work that requires the dedication and cooperation of a talented and diverse team of ESA employees and other collaborators. From technical training developers to training development specialists, eLearning developers,



project managers, subject matter experts, technical advisors, and voice talents.

Hermes Creative Awards is an international competition for creative professionals involved in the concept, writing, and design of traditional and emerging media. Hermes Creative Awards is administered by the

Association of Marketing and Communication Professionals (AMCP), an international organization with several thousand marketing, communication, advertising, public relations, digital media production, and freelance professionals.

There were about 6,500 entries from throughout the United States, Canada, and 26 other countries in the Hermes Creative Awards 2022 competition. Being a Gold Winner is a tremendous achievement; only approximately 22 percent of all of the entries receive the Gold Award.

Visit www.esasafe.com to learn more about other safety and technical courses offered in this format.



DAVID COLLIE APPOINTED CHAIR TO ONTARIO GOVERNMENT ELECTRIFICATION AND ENERGY TRANSITION PANEL

David Collie, our former CEO has been appointed as Chair to the Ontario Government's newly formed Electrification and Energy Transition Panel. According to the government, with the intensification of electrification and energy projects, there is a concern that these projects take too long to come online. The government wants to take steps to ensure we have the energy infrastructure needed to support a growing demand for the clean energy economy. The Panel will help them achieve these objectives and will provide advice and expertise on how to co-ordinate long-term energy

planning, emerging technologies, sustainability and affordability. At ESA, we know that given the speed of new electrification technologies adoption, we have a major role to play to ensure that these projects are implemented in a manner that is safe for all while understanding needs of the growing demand. David will still be at ESA as Special Advisor to the Board until June then will transition to his role on the Panel. On behalf of everyone at ESA, we congratulate David on his new role and look forward to supporting the work of the Panel.



EV Charging Station Installations are on the Rise – Are you Prepared?

Reminder to file your notification with ESA

With gas prices rising, more Ontarians are turning to fuel-efficient vehicle alternatives as a way to save money. Researchers are forecasting that by the year 2030, 50% of all vehicles in Canada will be electric. As ESA prepares to expand its EV supply equipment blitz across the province, we are reminding licence holders to file a notification with ESA so we can ensure installations are code-compliant, safe and secure.

Here's a few tips on how Licensed Electrical Contractors can help clients plan for their new purchase:

PLANNING AHEAD FOR THE PROJECT

Licensed Electrical Contractors should be involved with electric car charging station purchases from the very start of the process. The earlier you can begin working with your client, the more time and money-saving advice you can provide to customers.

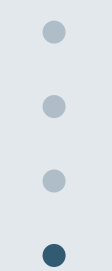
"One thing Licensed Electrical Contractors should advise their customers is that if they are buying equipment online or getting it from somewhere else, make sure it's approved for use in Canada by checking for the certification mark," Tremblay, Technical Advisor, ESA, shared. "You'll save a lot of time and effort in the long run."

Once you've ensured the electrical supply equipment is approved for use, you'll want to start working with your customer on the placement of the charging station. Finding a safe and secure spot is paramount to that process.

"Some manufacturing instructions you must take into account are, if the manufacturer says ventilation is required, well, you have to install ventilation," said Tremblay. "If you're installing it outdoors, just make sure your equipment is rated for the weather. You shouldn't have a dry type enclosure outside because it will be a waste of money, and will fail pretty quickly."

Older homes or residences built before 1976 may prove to be the most challenging installation sites. That's where preventative maintenance takes the forefront.

Tremblay says it's important to actively check up on homes to make sure nothing's overheating. That way you can identify weak spots early on and avoid a hazard altogether.



EV Charging Station Installations are on the Rise – Are you Prepared? (Continued)



“Most people only maintain their electrical when something doesn't work. You'll change your paint, you'll change your furniture, but you'll never spend money to actually upgrade your service,” Tremblay revealed. “So in older homes, this can be an accident waiting to happen. Over time things become loose and they could be potentially already heating up and you wouldn't even know.”

Lastly, installing electrical stations requires a notification of work to ESA – so make sure that is a part of your planning early on.

“We currently are doing a bit of a blitz focusing on EV charging systems,” said Tremblay. “So just remember to file for your notification with ESA. These are new and innovative projects and new to some people so we just want to make sure that everything is done correctly and safely.”

HANDLING THE HEAT

During installation, one important question you should keep in mind is can the electrical service panel handle it?

“The most typical hazards we see is people installing the EVSE on existing panels that don't have the capacity to add the electrical vehicle supply equipment,” said Tremblay. “This could be potentially a cause for an electrical fire. You don't want to overload these services.”

In order to avoid these hazards, Licensed Electrical Contractors should keep in mind that electrical chargers actually run for long periods of time, and will, most likely, be the largest load in a customer's house.

“You really want to make sure that your electrical system is adequate in size and make sure the proper maintenance is done and the torquing and all that.”



To learn more about EV supply equipment installation tips and best practices, please listen and subscribe to ESA's podcast, Grounded in Ontario, on your podcast channel of choice such as [Apple Podcast](#), [Spotify Podcast](#), [Amazon Podcast](#) and [Google Podcast](#).

26-704 GFCI Receptacle Requirements

The GFCI protection for receptacles is an important safety tool for reducing the risk of shock hazards in kitchens, bathrooms and other areas where outlets are near sinks, wash basins (complete with drainpipe), bathtubs or shower stalls. GFCI protection is also required for receptacles installed outdoor within 2.5 m of finished grade to protect people from shock when plugging electrical apparatus in outdoors. Specific covers have been created for outdoor receptacles to help protect against the elements even when a cord is left plugged in.

Rule 26-704 describes the requirements for GFCI protection for receptacles as follows:

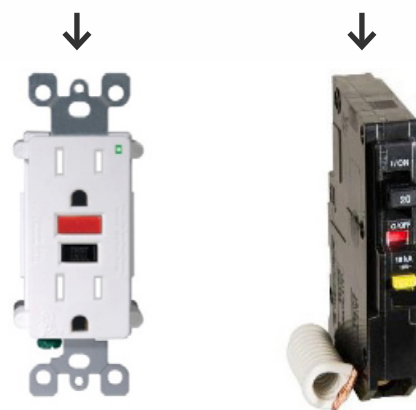


1 Receptacles having CSA configuration 5-15R or 5-20R installed within 1.5 m of sinks (wash basins complete with a drainpipe), bathtubs, or shower stalls shall be protected by a ground fault circuit interrupter of the Class A type, except where the receptacle is:

- intended for a stationary appliance designated for the location; and
- located behind the stationary appliance such that it is inaccessible for use with general purpose portable appliances.

2 All receptacles having CSA configuration 5-15R or 5-20R, installed outdoors and within 2.5 m of finished grade, shall be protected with a ground fault circuit interrupter of the Class A type.

TEST GFCIs MONTHLY





CODE CONUNDRUM

Q1

Where receptacles of type 14-50R are installed on recreational vehicle lots, the OESC requires them to be protected by GFCI of Class A type.

- a. True
- b. False

Q2

What is the maximum distance for spacing between supports for Electrical Non-metallic Tubing?

- a. 300mm
- b. 600mm
- c. 1.0 Meter
- d. 1.5 Meter

Q3

The maximum voltage for a class 2 circuit is:

- a. 30 V
- b. 48 V
- c. 115 V
- d. 150 V

ANSWERS:

Question 1: b. False (Rule 72-108(4))

Question 2: c. 1.0 Meter (Rule 12-1504)

Question 3: d. 150 V (Rule 16-200)



SAVE THE DATE

2022 ANNUAL MEETING & ONTARIO ELECTRICAL SAFETY AWARDS

*Save
the date!*

SEPTEMBER 29, 2022

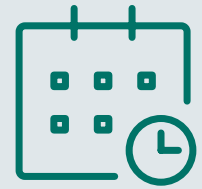
The Electrical Safety Authority will be
hosting the 2022 Annual Meeting &
Ontario Electrical Safety Awards.

Visit esasafe.com/2022awards for more information
about the Ontario Electrical Safety Awards.



SAVE THE DATE

LICENCE HOLDER MEETING



- The Annual 2022 Licence Holder Meeting will be held virtually on November 23 from 2 p.m. to 4 p.m.
- During the meeting, you will learn about the latest developments in Licensing, information about our Communications campaigns, and enforcement activities to address the Underground Economy.
- You will have the opportunity again to ask questions to our team and technical advisors.
- Invitations will be sent to your email address on file with ESA.
- Look for the link for the invitation in the next issue of Plugged IN.



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facebook.com/ElectricalSafetyAuthority



Electrical Safety Authority



youtube.com/ElectricalSafetyESA

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WE'D LIKE YOUR INPUT

Please send your comments or story ideas to
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