

PLUGGED IN



Technically Speaking | p.4

Learn more about electric vehicles and OESC requirements



LEC Store Refresh | p.17

Visit our newly refreshed LEC store with materials on topics like: the benefits of hiring a Licensed Electrical Contractor; considerations when installing an EV charger; and the ESA inspection process.



Can you Solve the Code Conundrum? | p.24

Please take our code conundrum and see how you do.



**Electrical
Safety
Authority**

See
what's
changed
inside!



WINTER 2023

Updated
RBO Guideline
Available Now!



Convictions

Unlicensed

Julian Solarte – Repeat Offender

Renovations at a business in Niagara Falls
– 1 site

- \$6,000.00 fine, \$1,500.00 victim surcharge – Operate without EC license
- \$6,000.00 fine, \$1,500.00 victim surcharge – Left Hazards
- \$3,000.00 fine, \$750.00 victim surcharge – Failure to apply for Notification of Work
- \$3,000.00 fine, \$750.00 victim surcharge – Advertised electrical services

Supratip Dutta

Advertised electrical services on Kijiji while not licensed

- \$500.00 fine, \$110.00 victim surcharge – advertising

James Binch

Renovations at residences – 2 sites

- \$3,000.00 fine, plus \$750.00 victim surcharge – Operate without EC license
- \$3,000.00 fine, plus \$750.00 victim surcharge – Left hazards
- \$3,000.00 fine, plus \$750.00 victim surcharge – Operate without EC license

Saeid Momeneh

Advertised electrical services on Kijiji & performed renovation work at residential & commercial sites

- \$7,500.00 fine, plus \$1,875.00 victim surcharge – Operate without EC license
- \$7,500.00 fine, plus \$1,875.00 victim surcharge – Operate without EC license
- \$5,000.00 fine, plus \$1,250.00 victim surcharge – Advertising electrical services

Bruno Azevedo

Renovations at multiple unit residence, 1 site

- \$1,500.00 fine, plus \$375.00 victim surcharge – Failure to Apply for Notification of Work
- \$3,000.00 fine, plus \$750.00 victim surcharge – Operate without EC license



Convictions (Continued)

Karan Gill

Advertised electrical services
on Kijiji while not licensed

- \$3,000.00 fine, \$750.00 victim surcharge
 - held self out to be holder of authorization in advertisement

Jonathan Barroso

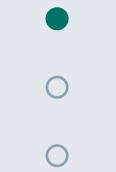
Advertised electrical services
on Instagram while not licensed

- \$1,500.00 fine, \$375.00 victim surcharge
 - advertising

Matthew Mackenzie

Renovations at a residence, 1 site

- \$3,000.00 fine, \$750.00 victim surcharge
 - Operate without EC license
- \$1,500.00 fine, \$375.00 victim surcharge
 - Fail to Apply for Inspection of Work



Adjustable Electric Vehicle Supply Equipment

Different levels of government continue to support the adoption of Zero Emission Vehicles (ZEVs) including Electric Vehicles (EVs). From the federal government announcement in December 2022 regarding proposed regulations aiming to set ZEV sales targets at 100 percent by 2035 down to the municipalities adopting climate change action plans and supporting the installation of EV charging stations, governments are gearing up to support the zero emission economy and associated infrastructure.

Currently EVs are the most common type of ZEV, and if trends continue, electrical systems need to continue to evolve to meet the higher demands at every level of distribution, starting from the electrical grid to the home 100A service panel. Software and application based EV chargers are now available in the market. These chargers come with increased functionality and provide the user a greater amount of control over the charging of their EV, while connecting to the internet via an Ethernet cable or through a Wi-Fi connection, a cellular connection or even through the vehicle's telemetry system. Many allow remote access and control through a smart phone and eventually to third parties such as local utilities. These chargers are capable of controlling the charge time and charge rates, with additional functions that allow the user to manage the load and energy consumption. ESA is still reviewing means to consider permitting adjustable EVSE, with conditions and pre-cautions to mitigate any safety hazards to both property and personnel.

In this article, we will review adjustable EVSE, given that it is not directly addressed in the Ontario Electrical Safety Code, and some considered options on how to address.

Based on ESA's Bulletin 86-1-*, it is permitted to base the rating of the EVSE on the field settings that are part of the equipment, for the purposes of maximum circuit loading, disconnect requirements, or overcurrent protection for such equipment provided the adjustable settings are not accessible. The bulletin uses the example of a dip switch located within the EVSE requiring a tool to open, as an example of "not accessible".

Permitting software adjustable settings provides advantages but at the same time, poses some challenges. The greatest advantage is allowing the installation of the EVSE without the need to incur the additional cost of upgrading the service and main panel for houses and buildings that have limited loading capacities. The greatest challenge is ensuring that users cannot inadvertently increase the charge rate settings resulting in a potential hazard with overloading the circuit.

To help mitigate this concern, perhaps we can consider conditions for permitting software adjustable settings for EVSE that would support their advantages and help in managing the risks.



Adjustable Electric Vehicle Supply Equipment (Continued)

The following are some conditions that may be considered:

- Permitted for **fixed-in-place** EVSE only;
- The manufacturer's instructions are followed;
- The EVSE are marked when adjusted below the maximum nameplate rating; and
- Restricted access to the adjustable settings.

A permanent legible marking can be posted on, as well as adjacent to the EVSE (when set below the nameplate maximum rating) with the minimum information shown in the example below.

WARNING: FIRE HAZARD

Do not tamper with maximum charging current setting

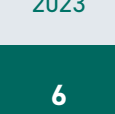
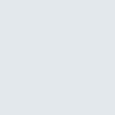
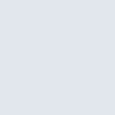
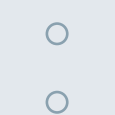
Maximum charging current: ____ amps
Installed overcurrent size: ____ amps
Installed conductor size: ____ AWG

Creating restricted access can help prevent a user from gaining access to the adjusting means in the future. This could be accomplished by including one or more of the following:

- A cover or door that requires the use of a tool to access the adjustments;
- Unique password protected commissioning apps;
- Software that has a unique password for that site; and,
- Other means where the manufacturer can demonstrate that "restricted access" is achieved

Additionally, some adjustable EVSE have features which allow it to function as an Electrical Vehicle Energy Management System (EVEMS). Many EVSE have both a static installation level and EVEMS; however, the installation of a new unit with the ability to set an initial current rating does not necessarily mean the unit can participate in dynamic EVEMS functions, and a product that cannot be installed at different current ratings may have dynamic EVEMS functions.

An EVEMS is defined as a means used to control EVSE loads through the process of connecting, disconnecting, increasing, or reducing electric power to the loads and consisting of any of the following: a monitor(s), communications equipment, a controller(s), a timer(s), and other applicable device(s).



TECHNICALLY SPEAKING

Adjustable Electric Vehicle Supply Equipment (Continued)

Rule 8-106 10) permits the EVSE loads controlled by the EVEMS to equal the maximum load allowed by the EVEMS. Therefore, if we consider adjustable EVSE to function as EVEMS, the maximum permitted load should be based on the setting of the load/current output of the adjustable EVSE.

Subrule 11) clarifies that where an EVEMS, as described in Subrule 10), monitors the **consumer's service** and **feeders** and controls the EVSE, the demand load for the EVSE shall not be required to be considered in the determination of the calculated load.

Furthermore, different EVSE manufacturers provide different means to verify the settings of an adjustable EVSE. The installer will need to make this information available to the inspector. Below is an example of one manufacturer.

After Wall Connector is energized at the circuit breaker, certain green LEDs (depending on the circuit breaker size) will illuminate for 10 seconds. See table below for exact light codes.

Circuit breaker	60 A	50 A	40 A	30 A	20 A	15 A
Maximum output	48 A	40 A	32 A	24 A	16 A	12 A



Note: To re-display the green LEDs after the initial 10 seconds, press and hold the charging handle button.

Stay tuned as ESA is still reviewing means to consider permitting adjustable EVSE, with conditions and pre-cautions to mitigate any safety hazards to both property and personnel.



Director's Corner



SOUSSANNA KARAS
Director of Licensing

Competency Profile

I am pleased to introduce the new Competency Profile for Master Electricians (ME).

This Competency Profile describes the minimum expectations (professional competencies) of an individual applying for the ME licence as well as throughout their licensing journey.

These expectations describe *the knowledge, skills, and judgment required to carry the licence of the Master Electrician safely and ethically.*

This Competency profile has been developed by the industry for the industry using robust methodology, evidence based approach and drawing on expertise of the subject matter experts.

This newly developed Competency Profile could not have been realized without the significant contributions of a number of individuals. Great thanks are due to the group of nine Subject Matter Experts (7 MEs and 2 representatives of ESA) who were instrumental in developing the detailed and relevant content. Recognition and great appreciation is given ECRA Advisory Council (ECRA AC) and its Master Examining Committee, whose collective feedback was extremely instructive and greatly informed the entire process. Finally, thank you to the 1,576 master electricians who completed the online survey; your input helped to ensure that the final product is grounded in the realities of day-to-day practice.

As a result of this remarkable work, sixty five (65) competencies were created which are organized thematically under (9) "domains" or categories, as follows.

- 1 Health and Safety (5 competencies)
- 2 Ontario Electrical Safety Code (6 competencies)
- 3 Legal (5 competencies)
- 4 Financial (5 competencies)
- 5 Management and Administration (12 competencies)
- 6 Technical Knowledge and Skills (9 competencies)
- 7 Advocacy (6 competencies)
- 8 Professionalism and Ethics (13 competencies)
- 9 Continuing Education (4 competencies)

You can find the full profile on [our website](#).



Director's Corner (Continued)

This new Competency Profile is a single standard that can anchor a number of regulatory activities such as:

- Setting licensure requirements, including the Master Electrician Exam
- Communicating to external stakeholders what Master Electricians do
- Providing advice/guidance to licence holders
- Developing standards and policies
- Informing matters related to professional conduct
- Developing training curriculum
- Informing continuing education requirements

Click [here](#) to learn more about Competency Profile.

Conclusion:

Development of the Profile is a step towards strengthening professionalism, knowledge and skills of the profession and improving public safety and consumer protection. We appreciate and acknowledge that the process of building and expanding of these competencies will take time. While these competencies were developed for the ME licence holders, the LECs (owners, management, decision makers) are accountable and should play an important role in providing MEs with required support and opportunities.

ESA will work together with its key stakeholders to ensure that the new and existing Master Electricians receive support in learning, building and improving these competencies. We, at ESA, strongly believe that Lifelong Learning Equals Lifelong Safety. As a result, we have started the process of planning and developing tools to assist MEs in their professional journey.

If you have questions or concerns, please write us at: LicensingMatters@electricalsafety.on.ca.



ESA Issues 20,000th Master Electrician Licence

ESA's Licensing department recently celebrated a major milestone in its history with the issuance of the 20,000th Master Electrician (ME) Licence on Dec. 14, 2022. Let's take a walk back through the history of the Master Electrician licence with a few fun facts that you probably weren't aware of.

Master Electrician Licensing Fun Facts

- The oldest ME Licence holder is 98 years young
- The most popular first letter for ME names is "J"
- Highest density area of ME Licence holders reside in postal code area K0A (in the Ottawa area)
- Licensing staff have handled approximately 414,000 calls related to licensing since 2005
- The 10,000th ME Licence was processed on June 30, 2010
- The 15,000th ME licence was processed on July 19, 2016
- The average age of an ME holder is 52
- The first ME licence was created on July 4, 2006.

Over the years, there have been many developments in the Licensing group created to enhance the customer experience and provide increased efficiencies for Licence holders.

Since 2006, licensing staff have worked closely with the ECRA Advisory Council, Contractor Advisory Council and the Master Examining Committee (MEC), to receive their feedback, advice and input into the very important issues of licensing, ME examination, compliance and underground economy.

One of the most significant improvements was the introduction of the Master Electrician online portal in June 2021 that provides licence holders with the option to renew and pay licence fees online which is a vast improvement over the paper system that existed for many years.

As with many organizations, the COVID-19 pandemic brought with it new challenges. In order to provide safe, convenient and easily accessible ME exam in the midst of a major health crisis, the first virtually proctored exam was conducted on April 1, 2021. 1,013 applicants have written the ME exam since the virtual proctoring began.



LICENSING MATTERS

ESA Issues 20,000th Master Electrician Licence (Continued)

The first official five-year licensing strategy was created in 2021. The three key pillars of the strategy are to: motivate compliance, reduce burden and improve trust in the profession and address the underground economy. Initiatives such as review and streamlining of the licensing application and renewal forms, working with ECRA and MEC on voluntary and soon to be mandatory continuing education framework,

working with stakeholders to improve disclosure of information about licence holders on ESA website, are just a few examples of the work that was done as part of this Licensing Strategy.

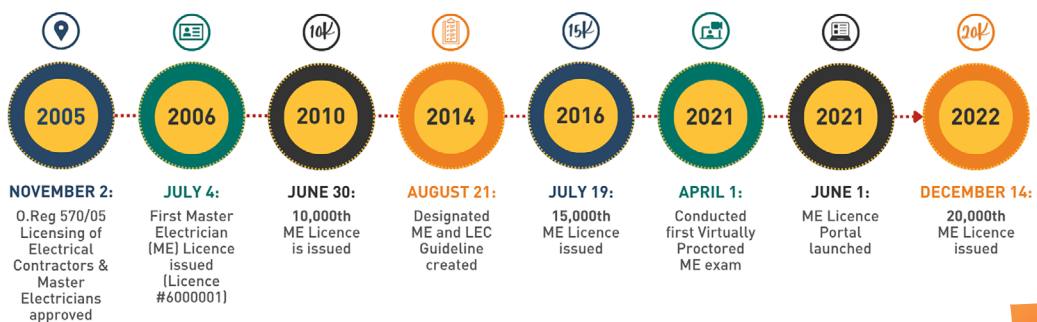
We would like to thank all of our Master Electrician Licensees for your contribution to electrical safety as we recognize this milestone.

LICENSING ARTIFACTS

Former Master Electrician submitted his municipally issued Master Electrician badges to ESA when he closed his ME licence due to retirement on March 3, 2021. The Badges include licences beginning as early as 1955.



MASTER ELECTRICIAN: MAJOR MILESTONES TIMELINE





2022 Licence Holder Meeting (LHM) Summary

In collaboration and partnership with the ECRA Advisory Council, ESA held another successful virtual Annual Licence Holder meeting on Nov. 23, 2022. The LHM was attended by 679 representatives from the industry (LECs and MEs), Ministry of Consumer and Government Services, ESA and other stakeholders.

The meeting opened with greetings from the Honourable Kaleed Rasheed, Minister of Public and Business Service Delivery.

The agenda included information on the latest developments in Licensing, an update from the Director and information on ESA's Communication campaigns aimed to increase awareness about risks of hiring unlicensed individuals. Cynthia Magill provided a case study that brought to light the importance of working safely as well as spoke about enforcement activities to address the Underground Economy. Serge Laflamme shared an update on Remote Inspections.

This year, two special guest speakers shared their innovative projects with the goal of building licence holders knowledge of new technologies. Peter Ewald from Lakeland Solutions presented on Project Speedier, a new Microgrid community in the Town of Parry Sound. Cara Clairman, President and CEO of Plug'n'Drive shared new trends and challenges in relation to widespread of Electrical Vehicles in the Province.

Attendees had the opportunity to ask questions during the meeting to Licensing, Operations, Regulatory representatives as well as Technical Advisors.

To view the meeting which includes the Technical Advisor Q & A, visit www.esasafe.com/meetings-events/licence-holder-meetings.



By the Numbers

679

attendees

10

speakers

15

ESA LHM project
team members

110

questions submitted
in advance and
addressed through
the Technical Q&A

22

questions answered live
from those submitted
from LECs in advance

99

live questions answered
by 4 Technical Advisors



Thank you to everyone who
contributed and made it
another successful event!

2022 Licence Holder Meeting Contest Winners

This year, everyone who stayed until the end of the Annual Licence Holder Meeting held on November 23 were eligible to be selected for a prize. Winners, who have already been notified, were randomly selected and we are excited to announce the prize recipients:

- John Pretty
- Waldemar Mieczkowski
- Karl Arnold
- David Wieser
- Christopher Cowan
- Brad Bibeau
- Guy Hahn
- David Simoneau
- Bhuwan Sharma

*(There was one additional winner
who chose not to publish their name)*



Regulatory Compliance Program (RCP) Update

Building Permit Initiative (Toronto)
July 18, 2022 to November 22, 2022

ESA recently completed an exciting initiative involving residential Toronto Building Permits that were obtained for additions and carports within the previous 12 months. The objective of the initiative was to review building permits to determine locations that may have had electrical work completed and where no ESA notification of work exists.

The goal was to reduce electrical work being performed in the underground economy, to remind LECs of their obligation to take out notifications, increase compliance with the Ontario Electrical Safety Code, to enhance ESA's oversight and enforcement efforts, and to increase safety.

Because of this initiative, 493 locations were identified and followed up on by a dedicated inspector.

- 51 locations found working without a notification
 - 39 were LECs
 - 6 were unknown
 - 3 homeowners
 - 3 unlicensed
- 49 of 51 have since obtained a notification
- 3 locations had the power disconnected due to the severity of the hazards found

LECs and MEs occupy a unique place in the industry – your role is to educate, lead by example and operate your business with integrity to improve electrical safety in the province. Filing notifications as required, is one of the steps. As a Regulator, ESA sees LECs and MEs as partners in safety, where we work together on a common goal – making Ontario a place where people can live, work and play free from electrical harm.

Reminder!

As per the Ontario Electrical Safety Code book, a notification of work must be filed **prior to the commencement of work** unless this is not practicable.

2-004 Notification of work

- 1 A contractor shall file a notification with the Electrical Safety Authority of any work on an electrical installation
 - a) **prior to commencement of the work** whether or not electrical power or energy has been previously supplied to the land, building, or premises on which the work is performed; or
 - b) within 48 h after commencement of the work where compliance with Subrule 1) a) is not practicable.



Are you thinking of taking the Master Electrician exam but require assistance?

ESA is committed to meeting the accessibility needs of people with disabilities. Please contact the Exam Department at **905-712-5385** or **masters.exam@electricalsafety.on.ca** to request an accommodation. To make an accommodation request, along with the exam application, provide a written explanation of the reason for the accommodation, such as a doctor's note, as well as a specific description of the accommodation you need. On the exam application, specify whether you intend to take your exam in person or virtually. Once the request and application has been received and approved, someone from the Exam Department will contact you to arrange for a private exam session.



Please note: the virtual proctor solution may not be an option for those requiring an accommodation.



CUSTOMER EXPERIENCE

Risk-based Oversight Guideline Update

Since the implementation of Risk Based Oversight (RBO), ESA gathered feedback from stakeholders and actioned on a number of items. As a result, we are excited to release a new version of the RBO Guidebook and want to bring the following updates to your attention.



Filters were added for commercial generator and commercial pool installations and these types of installations now receive a 100% inspection oversight recommendation.

Large new residential installations are defined as >7000ft² and/or >200A. These notifications receive a minimum of 2 visits. That means the service inspection and one other inspection request are visited and all other requests are deemed inspected with or without a visit.

Be aware that not all OESC Section 2 defects are considered Administrative with the following defects classified as Technical and when issued, these contribute to a contractor's defect ratio:

- 2-022 – Sale or other disposal and use
- 2-028 – Miscellaneous
- 2-032 – Damage and interference
- 2-034 – Use of approved equipment
- Section 2-100 +

In circumstances where a contractor wants to challenge a defect, you must immediately contact the Inspector who issued it.

With the advancement and increased use of Distributed Energy Resources (DERs), we want to clarify that the permanent generator residential program excludes the following in addition to temporary generators and transfer switch only installations.

- Generators not connected to an installation supplied by the Supply Authority with a certified transfer device; Generators that operate in parallel with the Supply Authority or utilize a closed transition transfer scheme; Interactive inverter; or power conditioning units connected to the Supply Authority system in accordance with Sections 64 and 84.



Risk-based Oversight Guideline Update (Continued)

The non-LEC HVAC process is also outlined more clearly with respect to new residential sites when the branch wiring installation is done separately from AC unit. When an HVAC Contractor installs branch wiring at the rough-in stage and subsequently the AC unit is installed (note: it may not necessarily be the same HVAC Contractor), two HVAC small job notifications are to be filed.

- Run wire for future AC; Ready for Final
- Installation of AC unit; Ready for Final

Remember that for any installation, contractors can request a site visit and that Inspectors can elect to make a visit regardless of the risk ranking or site visit recommendation. Contractors are asked to provide all pertinent information to ensure notifications are ranked accurately so that the appropriate oversight recommendations are applied.

The December 2022 version of the RBO Guidebook addresses common concerns and, following the above enhancements, it better aligns with how the system works today. For more information and to download your copy, click [here](#).



CUSTOMER EXPERIENCE

ESA Online LEC Portal Enhancements

In 2022, ESA launched some enhancements to the ESA Online LEC Portal that we hope you will find useful. These include:

Enhancements to Correspondence:

- Ability to re-issue invoices after making changes to the site information or purchase order number

Enhancements to Scheduling screen:

- Enable “Final” inspection flag – use to indicate that the installation is ready for a Final inspection at the same time as the selected inspection type
- Enable editing of Work Contact information in the Reschedule page
- When “Mass Reschedule” is used, the list of notifications is displayed in the order that they were input

Enhancements to RBO Details screen:

- All benefits and programs that can be earned under RBO are listed
- The requirements to be eligible for benefits and programs are displayed
- The date that a customer becomes eligible for a benefit or program is displayed*
- If a customer was previously eligible for a benefit or program but has since lost eligibility for some reason, a short note is included*
- Eligibility for the pre-authorized connection benefit is now indicated per line rather than having its own section

* Going forward

Enhancements to Notification Search screen:

- Initial screen after logging in is now the Notification Search screen
- Ability to search by RBO Oversight Response (Visit Optional, Visit, 100% Inspection)
- Ability to search by Risk Ranking (Low, Medium, High)
- Ability to search for notifications based on Work Contact person information
- More information in the list of search results, including PO#, Renewal Date and Inspector
- Ability to sort the list of search results by any column in the list
- Allow mass rescheduling of a group of notifications directly from the search results page

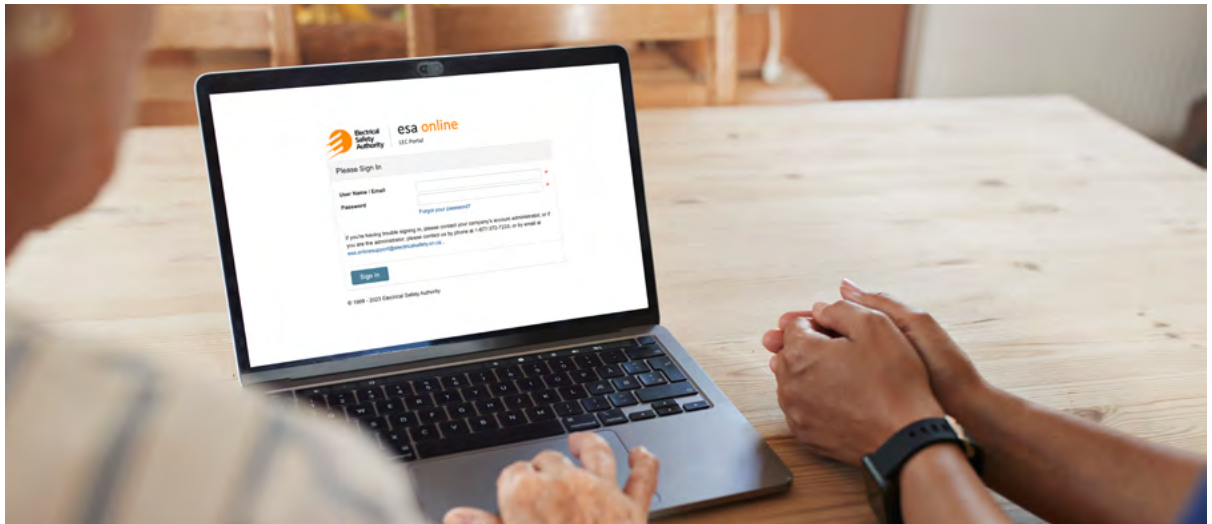
General Enhancements:

- Added an “Exit” button in the edit notification process
- Payment method defaults to “on account” rather than “credit card”
- Work Contact Mobile Phone no longer a required field when “Email” is preferred communication type

If you have never used the ESA Online LEC Portal, or haven't logged into the system in a while, please consider checking it out!



Schedule Small Jobs for Final Inspection Only



Effective March 31, 2023, notifications designated as Small Jobs will no longer have the option of “Rough-In” as an inspection type in the ESA Online LEC Portal.

As per the RBO Guidebook,

- 1 No work on service entrance equipment can be filed under Small Jobs
- 2 Small Jobs are filed as per OESC 2-004, when the work is ready for a Final Inspection
- 3 A job requiring a Rough-In Inspection and Final Inspection does not qualify as a Small Job

In the event that a notification is created where the scope of work is small enough that the system could accept it as a Small Job, but a Rough-In is required, the LEC Portal user should submit the notification with a Work Subtype of “Renovation” rather than “Renovation Small – Devices Only”.

ESA encourages contractors with open Small Job notifications that were previously scheduled for a Rough-In to request Final Inspection on those notifications.



Remote Inspections



ESA has been piloting a project to make inspections of electrical work more efficient and less burdensome. These inspections were completed through a photo or video rather than an in person site visit. ESA refers to these as “remote inspections”.

In June 2022, ESA conducted a survey among electrical contractors who have previous experience with submitting photos and/or videos to ESA Inspectors for their review of an electrical installation. This feedback provided ESA with a helpful understanding about what has worked well and where improvements can be made.

The survey results showed that a mobile application or an online portal was the desired approach among contractors, to implementing a remote inspections system and an overwhelming majority of contractors rated the system as excellent and would use it again.

A mobile application is in the final stages of development and beta testing is currently underway.

Remote inspections will focus on installations that are considered to be low risk and ESA Inspectors will hold the discretion of acceptable photo submissions. A guidance document outlining steps to upload photos and a list of commonly asked questions is also in development.

ESA is excited to share more details in the coming months and will continue to consult with the electrical contractor community to broadly rollout remote inspections and add other services that will help reduce administrative burden.

For further information or feedback on the project, please reach out to: stakeholder.esa@electricalsafety.on.ca



CUSTOMER EXPERIENCE

LEC Online Store Available for Busy Home Reno Season

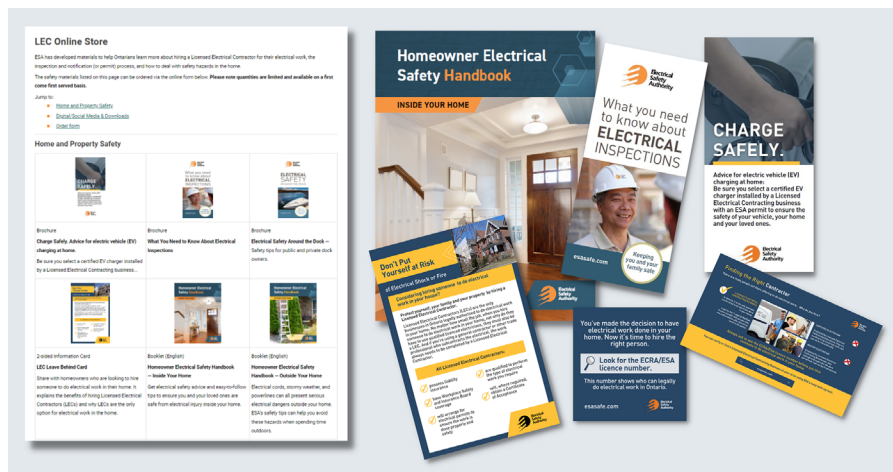
Spring is almost here, and so begins the start of home renovation season! Many homeowners are spending time researching their next home renovation project, studying the latest trends, and figuring out their list of must-haves. However, even after all that research, they inevitably still have questions about who they should hire, inspections and permits.

ESA is here to help! We are providing access to free resources you can give to potential clients on popular topics such as: the benefits of hiring a Licensed Electrical Contractor; considerations when installing an EV charger; as well as the ESA inspection process.

The store is now open! Orders must be completed online and cannot be placed through the Customer Service Centre. Please note quantities are limited and available on a first come first served basis.

We hope these resources will make it even easier for you to do business. Visit the store at esasafe.com/lecstore.

If you have any questions regarding the store, please contact esa.communications@electricalsafety.on.ca





WORTH KNOWING

Administrative Monetary Penalties

As of April 1, ESA will have the regulatory authority to issue Administrative Penalties. This authority is an important step forward in our efforts to address illegal and unsafe electrical installations across the province.

Here are some quick facts:

- **What are Administrative Penalties?**

They are an Order to pay a financial penalty in respect of an instance of non-compliance with a specified requirement of the Electricity Act or its Regulations.

- **Who could get an Administrative Penalty?**

ESA plans to use these penalties as a tool to address the underground economy. Where proportional, they will also be part of our escalation response for other non-compliances.

- **How Is ESA addressing non-compliances now?**

Administrative Penalties can be issued for acts of non-compliance that are currently addressed via provincial prosecutions, licence suspension, terms and conditions, warning letters, defects and other administrative actions. ESA will still be using these tools, but now has the additional authority to issue Administrative Penalties where that is the proportional response.

- **Who will issue Administrative Penalties?**

Either a General Manager or the Director of Licensing will issue them by way of an Order. Our inspectors will not hand them out.

- **How much are the penalties?**

Each penalty can be up to \$10,000 per infraction. However, there can be multiple penalties per instance. For example, an unlicensed person changes an electrical panel at a residential property without taking out a notification of work. In this case, the person could receive two administrative penalties.



WORTH KNOWING

Administrative Monetary Penalties (Continued)

Examples of contraventions for which ESA can issue an Administrative Penalty include: conducting electrical work without a licence, advertising electrical services without a licence, repeated failure to comply with licencing requirements, working without filing a notification (permit) with ESA, and hiring or sub-contracting an unlicensed contractor.

In building the framework for this program, ESA has been working in consultation with stakeholders, including the ECRA AC and other advisory councils. The framework outlines a tiered penalty structure, an opportunity for recipients to receive notice and an opportunity to respond, as well as a formal appeal process. Additionally, ESA will be publishing Administrative Penalties on its website. Monies collected through ESA's Administrative Penalties program will go directly toward funding electrical safety and educational programs.

ESA takes this new capability seriously and is committed to providing an opportunity for a party to correct their conduct before issuing an Administrative Penalty, in most situations. For our licensed community, an Administrative Penalty would generally only be used when an act of non-compliance is very material, is persistent, or where previous efforts, such as education, warnings, or terms and conditions, have failed to achieve the desired behaviour.

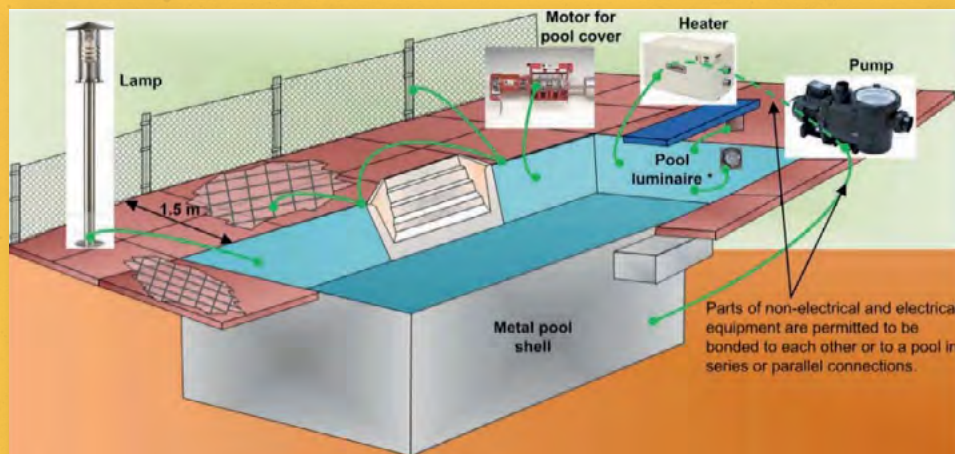
ESA's Administrative Penalty framework comes into force on April 1st 2023. For further information on ESA's Administrative Program, email administrativepenalties@esasafe.com. For information on licencing requirements, electrical safety information, to confirm a Licensed Electrical Contractor or to report an act of non-compliance visit esasafe.com.



Bonding of Non-current-carrying Metal Parts of Pools

Rule 68-058 of the OESC requires all metal parts of the pool and of other non-electrical equipment associated with the pool to be bonded together and to non-current-carrying metal parts of electrical equipment. This includes piping, pool reinforcing steel, ladders, diving board supports and fences within 1.5 m of the pool.

The Rule also applies to decorative-type pool luminaires and lighting equipment not located in a forming shell, metal screens of shields for underwater speakers, conduit and junction boxes by a copper bonding conductor not smaller than No. 6 AWG. Missing bonding may create an electric shock hazard that could lead to Electric Shock Drowning (ESD).





CODE CONUNDRUM

Q1

Overload protection shall not be required for a manually started motor rated at hp or less that is continuously attended while in operation, and that is on a branch circuit having overcurrent protection rated or set at not more than 15 A, or on an individual branch circuit having overcurrent protection as required by Table 29 if it may be readily determined from the starting location that the motor is running.

- a) 1/2 hp
- b) 1 hp
- c) 2 hp
- d) 5 hp

Q2

The interior of a storage tank that is vented to atmosphere, and contains flammable liquids stored above their flash point is typically classified as

- a) Zone 0
- b) Zone 1
- c) Zone 2
- d) Zone 20

Q3

Class H fuses are permitted to be used for overcurrent protection where circuit overload protection is provided by other means

- a) True
- b) False

Answers

Question 1:

b) 1 hp

Rule 28-308

Question 2:

a) Zone 0

*Rules 18-006
& App B Note*

Question 3:

b) False

Rule 14-212



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