

Discussion Topics



This presentation will increase participant awareness of:

- The Electrical Safety Authority
- Services ESA Provides
- Applying for Inspection
- Scheduling an Inspection
- Inspection Requirements
- OESC Residential Installation Requirements
- Training and Programs

Who is ESA?

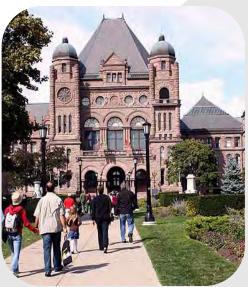


- Formally, Q Ontario Hydro's Electrical Inspection Division.
- April 1, 1999 ESA was introduced with the mandate for public electrical safety in Ontario.
- ESA has evolved maintained electrical inspection and introduced new regulations and services to meet the broader electrical safety needs of Ontarians.
- ESA works with safety partners to identify new services and approaches that respond to the changing environment (technological, risk, etc).

Who is ESA?

- Operates as a designated Administrative Authority in accordance with the *Electricity* Act and the *Safety and Consumer Statutes Administration Act* undertaking activities that improve electrical safety.
- Accountable to a Board of Directors and the Ontario Ministry of Consumer Services.
- Is a stand-alone, financially self sustaining not-for-profit corporation.
- Responsible for administering regulations that relate to public electrical safety.





Who is ESA?

ESA's mandate includes administering a set of regulations that include:

- Ontario Electrical Safety Code (Regulation 164/99)
- Licensing (Regulation 570/05)
- Electrical Distribution (Regulation 22/04)
- Product Safety (Regulation 438/07)





Who is ESA?

- **Identifying & targeting** leading causes of electrical risk.
- **Enforcing** a set of regulations related to electrical safety.
- **Investigating** fatalities, injuries, and fire losses associated with electricity.
- **Educating** on electrical safety regulations, safe use of electricity, and the dangers of unsafe electrical products and installations.
- Advancing the safety system through supporting standards development, working in conjunction with other safety organizations.





Who is ESA?



- 70% of all electrical incidents can be attributed to 5 key harms that impact Ontarians.
- ESA addresses the need for solutions to reduce harm from electrical incidents.
- To ensure success ESA engages safety stakeholders to leverage the power of working together.



Who is ESA?

ESA works with stakeholders to ensure public electrical safety:

- Safety Partners
- Electrical Trades
- Local Distribution Companies
- Electrical Manufacturers
- Certification Bodies
- Consumers & Homeowners
- Our Employees





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Electrical

Authority

Safety

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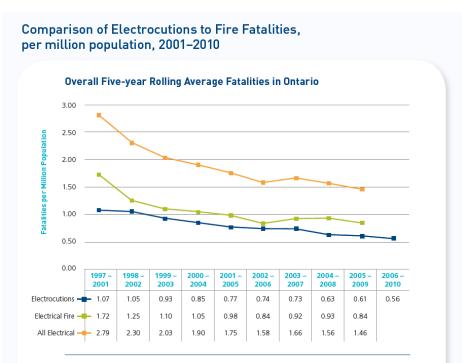
ESA Supporting Ontario's Electrical Safety System

Vision:

"An Ontario free of electrical fatalities and serious damage, injury, or loss"

Mission:

"To improve electrical safety for the well-being of the people of Ontario"



Conclusion: The five-year rolling average fatality rate has decreased 38% over the last five years.

Source: ESA and Coroner's records

Services ESA Provides



ESA's offers Ontario Electrical Safety Code inspection and related services that include:

- Wiring Inspections
- General Inspections
- Inspection Certificates
- Unapproved Electrical Product Inspections
- Continuous Safety Services
- Plan Review
- Record Searches
- Request for Information
- 10 (Freedom of Information Requests)



Services ESA Provides

ESA's offers Ontario Electrical Safety Code related services that include:

Ontario Electrical Safety Code & Bulletins

you for your natience in this matter

- Electrical Safety & Technical Training
- On-line Technical FAQ database
- Ask the Technical Expert editorials





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Services ESA Provides



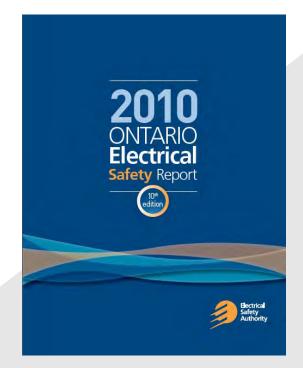
ESA works with stakeholders to advance electrical safety awareness and safe work practices. Annual public awareness campaigns are conducted to:

- Raise consumer risk awareness by sharing electrical safety information and tips.
- Increase consumer awareness of the requirements and benefits of using Licensed Electrical Contractors.
- Remind the public and high risk audiences to "Look Up! Look Out! for overhead powerlines.
- Reinforce the importance of safe work practices "Don't Work Live".

Services ESA Provides

- ESA produces annual editions of the Ontario Electrical Safety Report.
- The report increases the understanding of electrical risks that impact Ontarians.
- The report is compiled using incident data from a number of sources.
- Data analysis is augmented by root cause investigation data to support the audience in gaining the best possible understanding of where the risks are and why they occur.

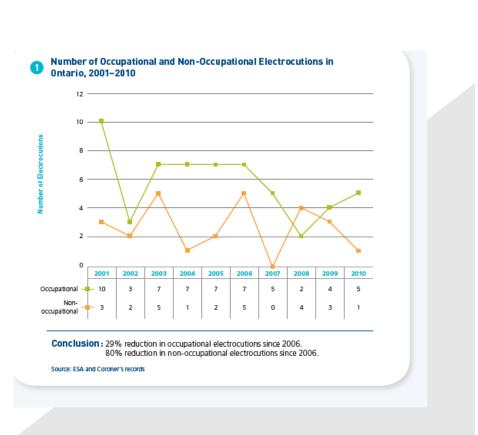




Services ESA Provides

The Ontario Electrical Safety Report data reinforces ESA's focus on five key harms:

- Powerline Safety
- High-Risk Worker Safety
- Electrical Product Safety
- Aging Infrastructure
- New Wiring



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Applying for Inspection

Inspection requirements:

- An electrical inspection is required for any new electrical installation.
- An application can be made up to 48 hours after the commencement of work.
- Certain exemptions exist for an application for Inspection.
- Homeowners are not to take out an application for contractors.





Applying for Inspection

Inspection fees:

- ESA charges for inspection and other services.
- Revenues from the provision of services cover:
 - ESA's operating expenses.
 - ESA safety investigations and root cause analysis.
 - Research and assessment of new technologies and standards.
 - Support public electrical safety education.
- More Information regarding fees are
- ¹⁶ available at: www.esasafe.com.







Applying for Inspection

An application for inspection can be obtained by contacting ESA:

1-877-ESA-SAFE 1-877-372-7233



Scheduling an Inspection



Electrical inspection can be scheduled by calling ESA at

1-877-372-7233

- Inspections may involve a number of visits at various stages, including:
 - Inspection of underground wiring
 - Service inspection
 - Rough-in inspection
 - Final inspection
- Inspection will usually be conducted on the next day.

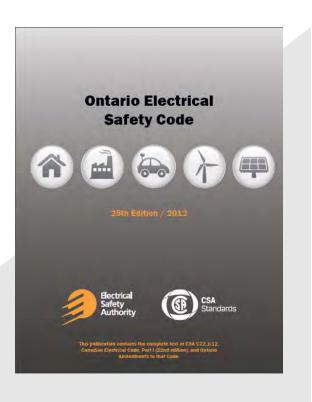


Inspection Requirements

Before Inspection:

- Ensure that the electrical installation complies with the Ontario Electrical Safety Code.
- Provide ESA at least forty-eight hours notice for inspection.
- Electrical installations are not to be concealed or rendered inaccessible.
- Inspections may be made as ESA determines.





Inspection Requirements

Inspector Conduct:

- Do what is right, fair and honest.
- Work to the letter of the law.
- Respect for all.
- Avoid conflicts of interest.
- Appropriate personal conduct.
- Portray the Values and Principles of the ESA Code of Conduct.





Inspection Requirements

After Inspection:

- Check status of inspection:
 - If passed OK to proceed.
 - If defected:
 - Written report available.
 - Remedy all defects In a timely manner as prescribed.
 - Schedule re-inspection.
- May be re-inspected at any time.

Bectrical Safety Authority	400 Sheldon Dr, Unit 1, Cambr For inquiries: TOLL FREE TEL: 1-877-372-723	-	(: 1-800-887-4278
www.esasafe.com	Certificate of I	rspection	
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OESC Residential Installation Requirements

General requirements:

- Arc fault circuit interrupters for sleeping areas.
- Tamper resistant receptacles.
- Outdoor receptacles require weather proof covers.
- Receptacles as prescribed for electric vehicle charging equipment.





OESC Residential Installation Requirements

Receptacle requirements in the kitchen:

- Refrigerator
- Gas Range
- Counter tops / island or peninsula.
- Receptacles are not to be installed in cabinets (with exceptions).
- Receptacles are not to be mounted face up in work surfaces.



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OESC Residential Installation Requirements

Ground Fault Circuit Interrupters required:

- Within 1.5 m of sinks or wash basins.
- Within 2.5 m of grade.
- For submersible pumps installed in lakes, rivers, and streams.





OESC Residential Installation Requirements

Circuiting requirements:

- Refrigerator
- Laundry rooms
- Utility rooms
- Microwaves
- Central vacuums
- Electric vehicle charging equipment





Training and Programs

ESA offers a broad selection of Safety Training including:

- Workplace Electrical Safety
- Control of Hazardous Energy
- Occupational Health and Safety
- Electrical Safety Awareness
- Protection Against Available Fault Current



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LOOK OUT AVOID COMMON ELECTRICAL HAZARDS

Training and Programs

ESA offers a broad selection of Technical Training including:

- The Ontario Electrical Safety Code
- Pre-Master Electrician
- Conductors
- Grounding and Bonding
- Solar Photovoltaic Installations
- Residential Installations (Coming Soon)



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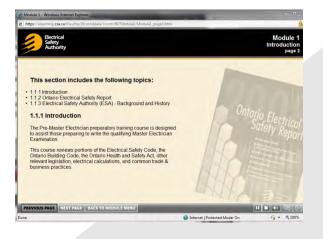
Training and Programs

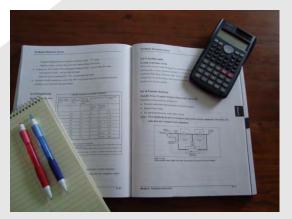
ESA Training is offered through:

- Interactive classroom learning
- Online learning
- Independent self study









Training and Programs

Programs offered by ESA include:

- Continuous Safety Services (CSS)
- Electrical Safety Plan (ESP)
- Authorized Contractor Program (ACP)





Recap

We discussed:

- Who is ESA
- ESA's Vision, Mission, and Services
- Inspection application and scheduling
- Residential installations
- Training and Programs







In Summary

- ESA's mission is to improve electrical safety for the wellbeing of the people of Ontario.
- The role of ESA is to enhance public electrical safety.
- ESA is responsible for administering specific regulations related to electrical safety.
- ESA also works extensively with stakeholders to educate, train, promote, and foster electrical safety.





Visit:

www.esasafe.com

- Electrical Inspection Requirements
- Consumer Electrical Product Safety
- Electrical Product Recalls
- Electrical Safety Training
- And much more...
 Harm Reduction

Services:

- 1-877-ESA-SAFE
- 1-877-372-7233



Thank you!