

Conformity Assessment Guidance and Best Practices Workshop

Rick Morrison, P.Eng. – August 6, 2018



**CSA
Group**

- How Conformity Assessment Bodies Assist Government with Regulatory Enforcement
- Designing a Third-Party Conformity Assessment Program
- Canadian Electrical Safety System

- Design and operate ongoing conformity assessment programs
- In Canada, a number of Regulations require third-party conformity assessment from Standards Council of Canada accredited Conformity Assessment Bodies
- Typically these Regulations do not specify the type of conformity assessment scheme

Product Labeling - to readily indicate products that comply with Standards and Regulations

- Canadian Certification Mark indicates product complies with Canadian requirements
- USA Certification Mark indicates product complies with USA requirements
- Combination Mark indicates product complies with both Canadian and USA requirements



- Provide online directories of Certified products, which inform the public and Regulators of models that comply with Standards and Regulations
- Directories include description of products, model numbers, applicable standards and special instructions to Authorities Having Jurisdiction (AHJ)

How Conformity Assessment Bodies Assist Government with Regulatory Enforcement



- Conduct market surveillance testing

How Conformity Assessment Bodies Assist Government with Regulatory Enforcement



- Draft and publish Other Recognized Documents (ORDs) to address new products or new features to existing products not outlined in current Standards
- In 2009, CSA had published an ORD that addressed an issue with the test procedures for bottom mount refrigerator/freezers with a through-the-door icemaker in the fresh food compartment
- Both the Canadian Standard and US Code of Federal Regulations did not have adequate test procedures at the time
- Our ORD was incorporated into CSA Standard and US Code of Federal Regulations

How Conformity Assessment Bodies Assist Government with Regulatory Enforcement



- Conduct custom testing to address safety concerns with new products or new features in existing products

Designing a Third-Party Conformity Assessment Program

Timely and cost effective
to satisfy industry needs

Enough rigor to instill
confidence with Regulators
and the public



- One size does not fit all when designing a Conformity Assessment Program

- Program requirements depend on:
 - acceptable levels of risk,
 - complexity of products,
 - complexity of Standards,
 - specific Regulatory requirements

- Conformity Assessment Program examples:
 - **Model Certification** – Testing and construction review conducted internally by CSA engineers
 - **Witness Testing** – All testing witnessed at manufacturers qualified test facility by CSA engineers
 - **Supervised Manufacturers Testing for Certification (SMTC)** – Testing and construction review conducted at manufacturers qualified test facility by manufacture with final review of test results and construction review conducted by CSA engineers

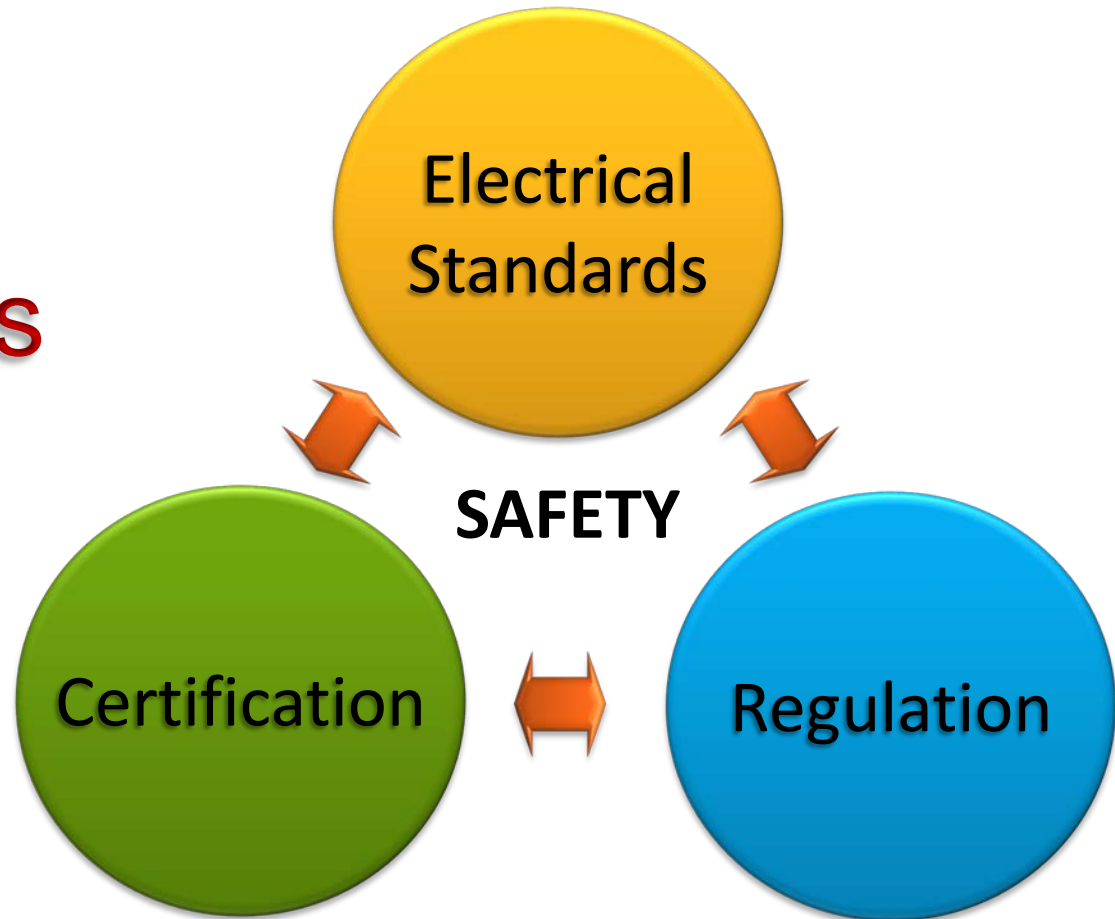
Designing a Third-Party Conformity Assessment Program



- **Acceptance of Third-Party Test Reports** - from other accredited test labs and/or certification bodies
- **Factory Inspections** – unannounced factory visits conducted by CSA Inspectors
- **Field Evaluations** – small batches of products are inspected in the field and labeled by CSA Engineers
- **Ongoing Conformity Testing** – CSA Factory Inspectors tag and have certain components shipped to CSA for ongoing testing



Key Components



Canadian Electrical Safety System

Jurisdiction



Regulation

- Each Provincial and Territorial government is responsible for electrical safety and enforcement within it's own borders.
- Only 13 jurisdictions in Canada

Canadian Electrical Safety System



Regulation



CE Code Adopted as Regulation by all Provinces and Territories





Electrical Standards



**CE Code, Part I Installation
Code**



**Electrical product safety
standards**

Thank You

