



Safe technical systems. Everywhere.

BC Safety Authority

How we're helping you keep BC safe

Janice Lee, Director of Safety Oversight
September 24, 2015



Safe technical systems. Everywhere.



Electrical Equipment



Boilers, Pressure Vessels
and Refrigeration



Gas Systems



Elevating Devices



Railways



Passenger Ropeways



Amusement Rides



Complex Systems

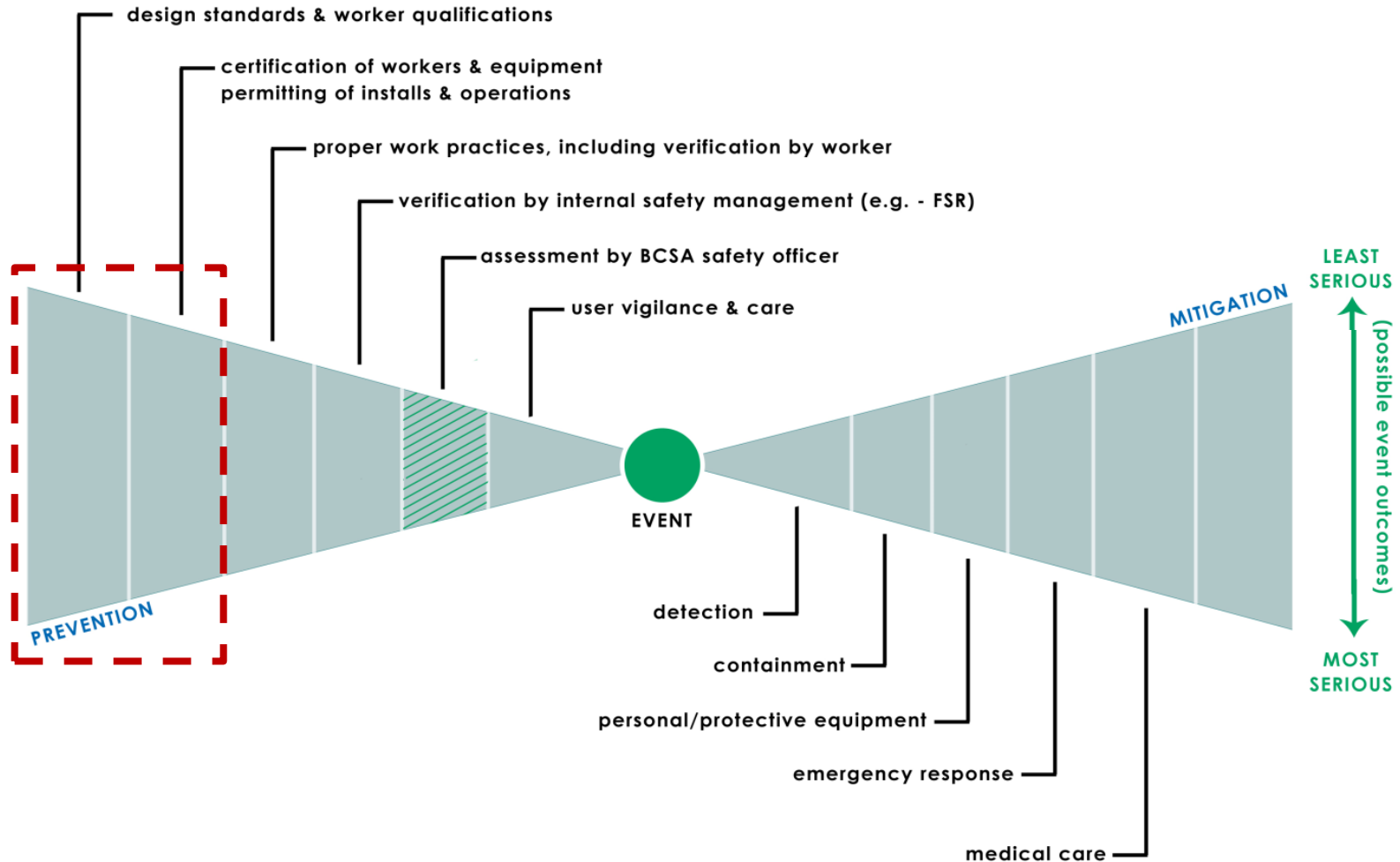
Safety is a
shared
responsibility



Our Approach to Safety Oversight

- Product design registration
- Licensing and certification (e.g., contractors)
- Inspection, assessment and auditing
- Consultation and education
- Enforcement
- Research and sharing information
- Permitting (e.g., installation and operating)
- Alternative Safety Approaches
- Incident investigation
- Contributing to code and regulation development

Prevention and Mitigation Strategies in Technical Safety



Principles of Certification

Certified individuals should be:

➤ Qualified

- Individuals should be qualified and skilled in order to perform regulated work and/or to declare regulated work meets a technical standard
- Maintain currency of knowledge

➤ Accountable

- They should be accountable for the work they perform or declare

➤ Professional

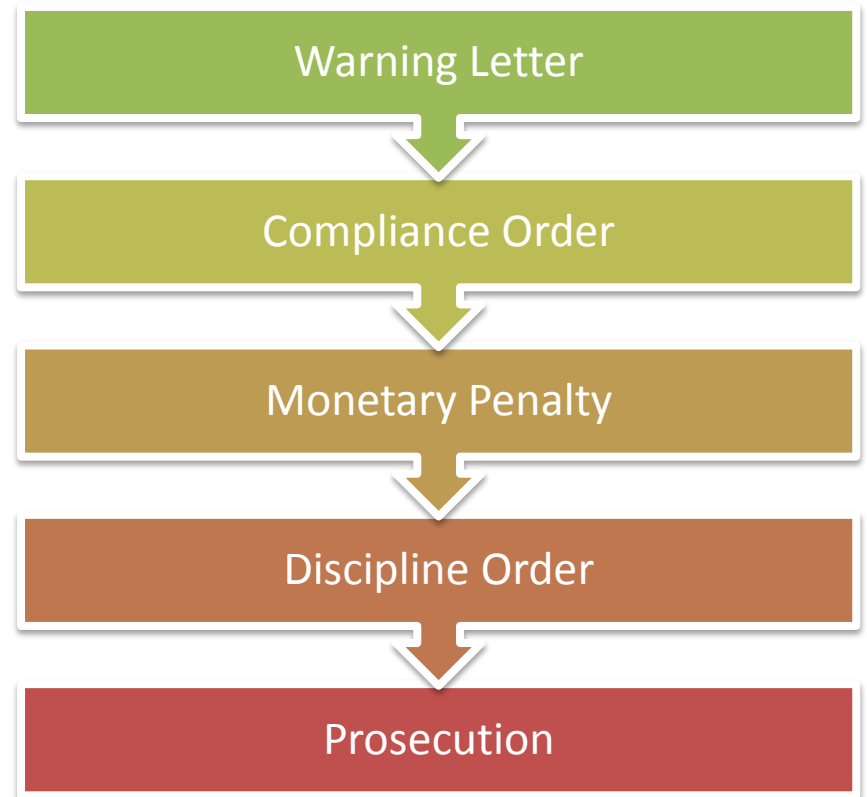
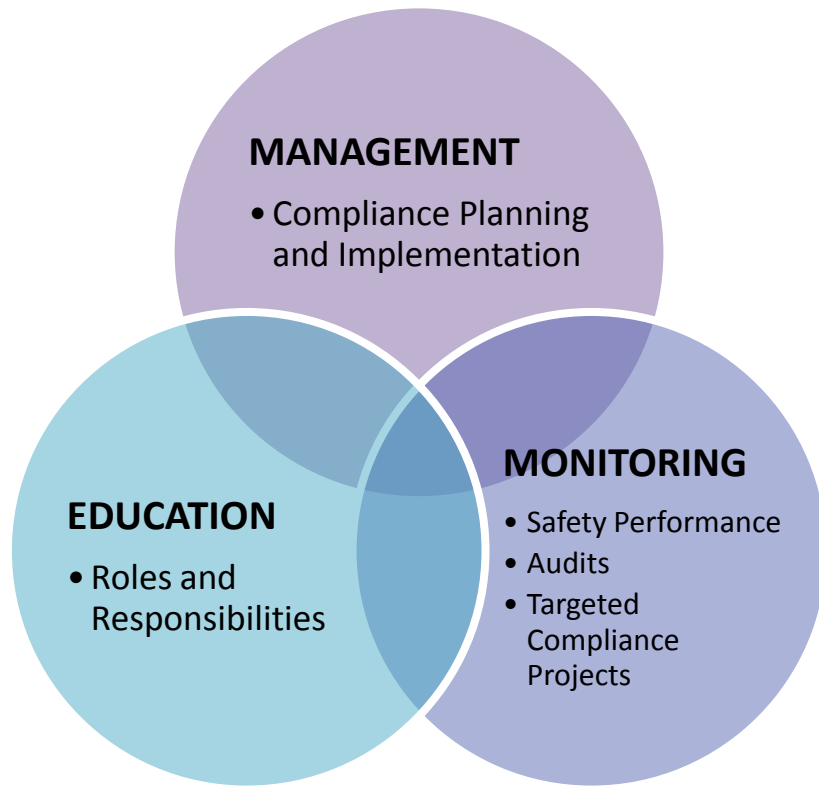
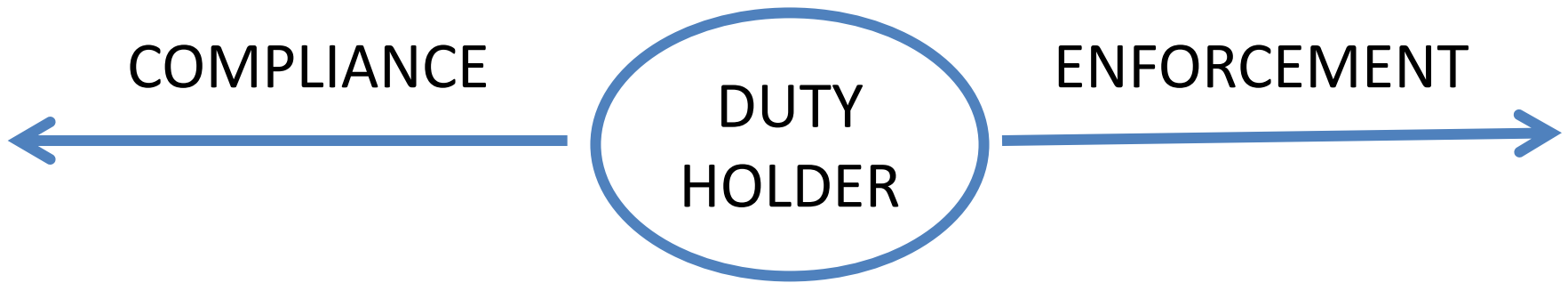
- Understand their role & responsibility and exercise it accordingly

Principles of Certification - How

- Assessment of competency through audits
 - ongoing
- Education and/or experience requirements
 - At new certification issuance
 - Result of audit findings
- Effective communication channels
- Build knowledge (near future)
 - As Found – High Hazards
 - Correlation - Data to knowledge
 - Correlation - Data to safety
 - Segmentation of Industry

Certified Individuals should be:

- Qualified
- Accountable
- Professional



**BC Safety
Authority
provides
oversight
and
information**



Operating Permits

Why?

- Required by law (*Safety Standards Act, section 28*)
- Maintenance by qualified individuals

When?

- Before operating equipment
- When you acquire a property
- Ongoing renewal

How?

- Application form on website



 Three overlapping application forms from the Safety Authority. The top form is for "GAS OPERATING PERMIT APPLICATION", the middle one for "BPV OPERATING PERMIT APPLICATION FOR PRESSURE VESSELS", and the bottom one for "ELECTRICAL OPERATING PERMIT APPLICATION". Each form includes sections for "PERMIT INFORMATION", "CONTACT INFORMATION", and "SITE INFORMATION". They also contain contact details for the Safety Authority, including the address "505 South Street, Suite 200, New Westminster, BC V3L 0E1", phone numbers, and email addresses.

Additional value for operating permit holders:

- Client Fact Sheet
- Client Outreach
- Asset Owner Portal
- Equipment Owner Newsletter

Client Fact Sheet:

Safety Performance Data

	2013	2014
Number of assessed permits	72	42
Number of assessed permits where safety officer found hazard that is cause for concern <i>(hazard level 3)</i>		1
Number of assessed permits where safety officer found hazard that is high or critical -- immediate action is necessary <i>(hazard levels 4 & 5)</i>		0
Pass rate <i>(number of assessments for which Safety Officer passed job on first inspection / total number of first inspections)</i>	89%	69%
Number of non-compliances	5	4
Number of jobs identified without valid permit or with undervalued work	8	9
Number of enforcement actions <i>(number of compliance orders, discipline orders, monetary penalties)</i>	0	0
Number of reported incidents	0	1

Client Fact Sheet:

Field Safety Representative (FSR) Data

FSR NAME		2014 PERMITS	AS-FOUND HAZARDS	# INSPECTIONS	PASS %
John	Do			8	85%
		EL-123456-2015			
		EL-123457-2015	Lack of attention and maintenance		
		EL-123458-2015			
Fred	Smith			6	97%
		EL-890123-2015	High voltage load break switch not grounded properly		
		EL-890124-2015			
		EL-890125-2015			

Client Outreach

Gain a better understanding of:

- our clients
- the equipment they own and oversee
- their industry
- safety themes common across technologies and industries



Asset Owner

Phase 1:

- current operating permits
- a list of inspections
- upload and download documents

Phase 2:

- current renewal invoice
- list of equipment units
- list of licences and certificates





Permits, Approvals & Design Registrations

Licences, Certificates & Exams

Regulations & Consultation

Safety Information & Training

Enforcement & Compliance

SEARCH

Safe technical systems. Everywhere.



BC Safety Authority is an independent, self-funded organization mandated to oversee the safe installation and operation of technical systems and equipment. In addition to issuing permits, licences and certificates, we work with industry to reduce safety risks through assessment, education and outreach, enforcement, and research.

MyConnection Login

Obtain a Permit

Get Licensed

Find a Contractor

Sign up for Notifications

Gas Newsletter Summer 2015

This edition's feature story focuses on incorrect venting materials that could cause CO poisoning.



BCSA News

31 July 2015

BCSA issues statement following jury recommendations from Babine Forest Products Coroner's Inquest

[Read More](#)

Industry Alerts

30 July 2015

New Boiler, Pressure Vessel And Refrigeration Codes Adopted

BOILER AND PRESSURE VESSEL > INFORMATION BULLETINS

[Read More](#)

Events

Lieutenant Governor Safety Awards 2015

BC Safety Authority has opened the call for nominations for the Lieutenant Governor Safety Awards 2015.

Report an Incident

Submit an incident report to BC Safety Authority. **Available 24 hours.** Please call: 1-866-566-7233
[Read more](#)

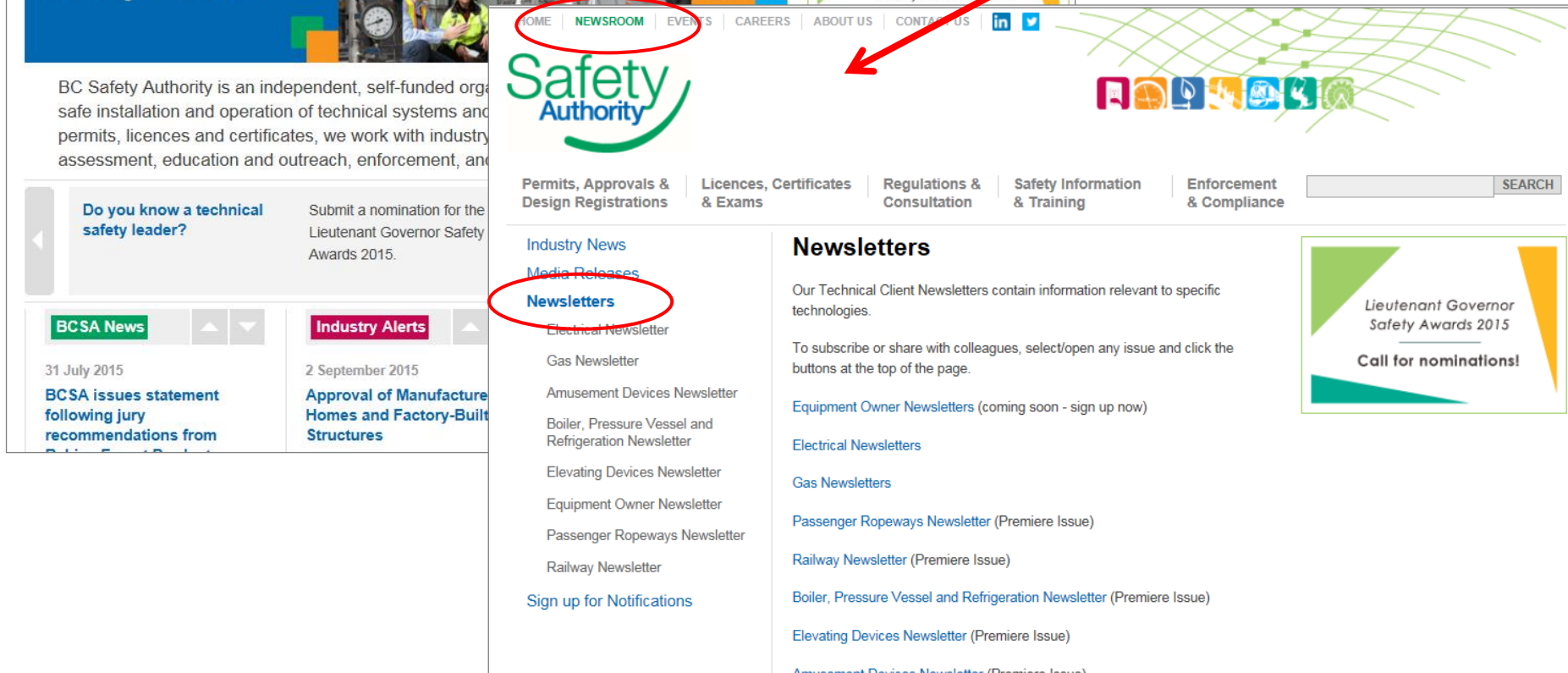
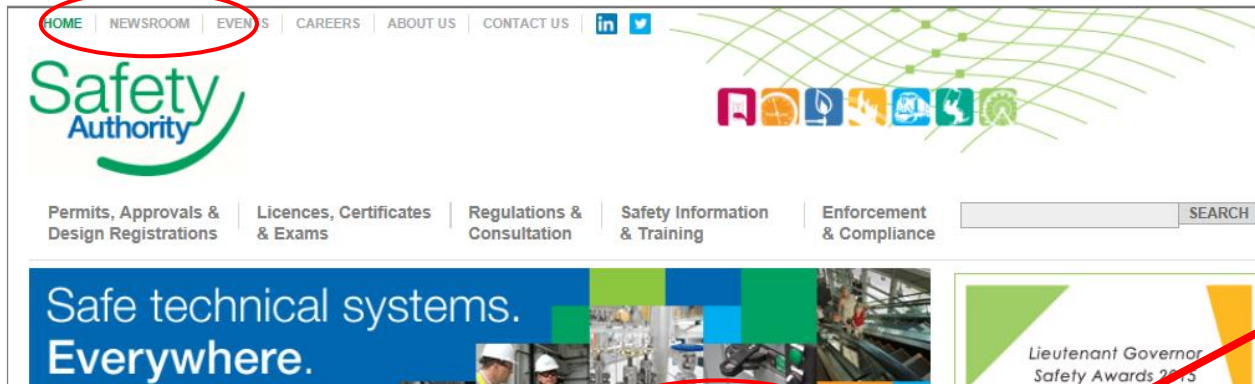
Contact Centre

Hours: 7:00 am to 8:00 pm (PST)
Monday to Friday
contact@safetyauthority.ca
1-866-566-7233

Equipment Owner Newsletter

*Subscribe and
suggest topics
today!*

safetyauthority.ca



Contact Us

Products, services, information or to report an incident*

safetyauthority.ca **1.866.566.7233**

Regional Business Leaders:

Lower Mainland North: Brad Bice

Lower Mainland South: Alina Urloiu

Interior: James McLeod

Vancouver Island: Paige Hill

North: Jason Downing

**Incidents must be reported to BCSA within 24 hours of occurrence.*

