

Regulating the Explosives Industries in Canada course

Or

What to expect when the regulator comes calling

Course presented by

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Course Description

This course reviews the regulatory requirements for explosives operations in Canada with a focus on the regulations under the federal *Explosives Act*. Other Acts include the Criminal Code, TDG, Quebec Explosives Act, provincial blasting regulations under OHS acts.

Industries include blasting explosives, fireworks/pyrotechnics, perforating, seismic. Operations include manufacture, storage, sale, use, importation/exportation and transportation.

Target audience

Members of CNFA, CPC, CEAEC, CAGC, PSAC; regulators (provincial/territorial, municipal – OHS, Fire Marshals, transport); law enforcement; DND; Canada Border Services Agency; Transport Canada (TDG, ports); EMO; explosives licence holders

Duration

2 days

Cost/Registration

See website

Location

The first course will be held in Halifax, NS, 20/21 May 2015. The exact location will be provided upon registration. Further courses will be scheduled across Canada depending on demand. Course schedules will be posted on our website.

Course handout

Candidates will be provided with a workbook containing select slides from presentations. A list of documents that candidates should bring with them will be provided upon registration.

Course Outline

Criminal Code and Acts – focus on federal Explosives Act; Transportation of Dangerous Goods Act; provincial Occupational Health and Safety (OHS) Acts and Mining Acts; Canada Shipping Act; Quebec Explosives Act; Consumer Packaging and Labelling Act

Explosives Regulations, 2013 (ER, 2013) – came into force 1 Feb 14; security, fire safety and key control plans; security screening; changes and new requirements

Licences/certificates – manufacturing, storage, importation/exportation/in transit - procedures and forms

Chemistry of explosives – explosion; fuel/oxidizer mix; molecular explosives; oxygen balance; explosives reaction; high/low explosives; detonation/deflagration

Inspectors of Explosives – powers; deputy inspectors; suspension/cancellation/stop work

Authorization – process, classification, testing, continued authorization

Manufacture – bulk explosives facilities/trucks; pumping water-based explosives

Quantity-Distance (QD) – new BNQ standard (CAN/BNQ 2910-510 Explosives - Quantity Distances) if published; calculations; potential effect (PE); ski hills; perforating

Storage – new BNQ standard (CAN/BNQ 2910-500 Explosives - Magazines for Industrial Explosives) if published; changes from previous standard; storage of non-industrial explosives (former AESG); CERL magazine trials; DL #61; limits on Type 6 magazines

Inspections – inspection vs investigation; inspection process for vehicles, magazines, bulk factories; post-inspection; Enforcement and Compliance Policy

Homemade Explosives (HME) – precursors; regulated approach; voluntary approach

Risk – ERD approaches; frequency of magazine explosions in Canada; bulk trucks vs QD

Accidents/incidents – reporting; investigating; review of select accidents

Use of explosives – provincial blasting regulations (review regulations of province in which the course is being held); fireworks/pyrotechnics

Security – open discussion; chemical facility security; security implications of explosive use; accountability and security of explosives; security principles and systems

Transporting – TDG vs ER, 2013; Walden accident; 5t vs 20t loads; detonators with other explosives

Miscellaneous – Explosive Limitation Survey (ELS) of ports; reuse/burning of packaging; deteriorated/disposal; blast effects (design basis threat (DBT) input into CSA 850 standard); electrical; environmental assessment (EA); ammonium nitrate (AN); security of documents; rf hazard; evacuation distances; copper detonators; suspicious activity