Compliance Review eSafetyFirst Canada

Transportation of Dangerous Goods (TDG) Online Training Course

The purpose of this document is to outline the compliance review for the eSafetyFirst Canada (eSafetyFirst) online TDG Online Training course. The course was viewed in its entirety and then reviewed chapter by chapter to determine both compliance and alignment with Transportation of Dangerous Goods Regulations (SOR/2001-286). Transportation of Dangerous Goods Regulations (SOR/2001-286) are the regulations that govern the transportation of dangerous goods in Canada and are enforced across all jurisdictions in Canada.

Each section in this report contains the points required for compliance with the legislation. Usually, the sections will contain any needed revisions to meet compliance requirements. **However, it is important to note, there are no required revisions**. There are few cosmetic, non-technical points that will be noted at the end of this report.

The eSafetyFirst TDG course does not measure any practical training or assessments, it is also important to mention that Canada does not require workers to have a practical assessment to be certified in TDG. The eSafetyFirst course packs a lot of information into the course, going above and beyond the minimum requirements. The course also has:

- **Knowledge Assessment:** Each module has a quiz that requires an **80% or higher** score to achieve a passing grade, necessary before moving to the next section
- **Proof of Training:** Once each learner meets the requirements, there is an automatic generation of a downloadable TDG certificate template.
- **Mandatory Employer Sign-off Notice:** Module 1 has a clear prompt alerting learners that the certificate is specific to their employer and if they are working for multiple employers they will need to obtain additional certificates. The eSafetyCanada TDG Certificate also has a field for employer endorsement as required by the Regulations.

The course is laid out in the following chapters:

- Introduction to TDG
- Classification of Dangerous Goods
- Documentation of Dangerous Goods
- Safety Marks
- Means of Containment
- Special Cases for Road Transport

- Emergency Response

This report provides a clear, comprehensive set of **required points and learning outcomes** for a **Transportation of Dangerous Goods (TDG) Online Training Course in Canada**, based directly on Transport Canada's TDG Act and Regulations, including the required general training topics listed in **Part 6, Section 6.2**.

All corrective actions are addressed in **BOLD RED** font.

---

1. Course Introduction & Regulatory Overview

Necessary Points:

- Introduction to the TDG Act and Regulations.
- The roles and legal responsibilities of the three key players: **Consignor** (Shipper), **Carrier** (Driver/Transporter), and **Consignee** (Receiver).
- Enforcement, role of Transport Canada inspectors, and penalties for non-compliance.
- Training certificate rules: Requirements for employer-issued certificates and validity periods (3 years for ground/marine, 2 years for air).

By the end of this module, learners are able to:

- Identify the legal frameworks governing the transport of dangerous goods in Canada.
- Differentiate between the specific legal responsibilities of shippers, carriers, and receivers.
- Explain the requirements for maintaining a valid TDG training certificate.

---

2. Classification of Dangerous Goods

Necessary Points:

- The definition of a "Dangerous Good."
- The **9 Classes** of dangerous goods (and their respective divisions/subsidiary hazards):
    - *Class 1: Explosives*
    - *Class 2: Gases*

    - *Class 3: Flammable Liquids*
    - *Class 4: Flammable Solids*
    - *Class 5: Oxidizing Substances & Organic Peroxides*
    - *Class 6: Toxic & Infectious Substances*
    - *Class 7: Radioactive Materials*
    - *Class 8: Corrosives*
    - *Class 9: Miscellaneous Products, Substances, or Organisms*
- How to utilize **Schedule 1, 2, and 3** of the TDG Regulations.
- Understanding Shipping Names, UN Numbers, Packing Groups (I, II, III), and Compatibility Groups.

Learning Outcomes:

By the end of this module, learners are able to:

- Classify hazardous materials into their correct TDG primary and subsidiary classes.
- Navigate TDG Schedule 1 to locate specific chemical shipping names, UN numbers, and packing groups.
- Determine the relative degree of danger of a substance based on its assigned packing group.

---

3. Shipping Documentation

Necessary Points:

- The purpose, importance, and information required on a TDG Shipping Document.
- The structural layout of a compliant shipping document (e.g., UN number, shipping name, primary class, packing group, quantity, emergency contact info).
- Consignor's Certification (the mandatory declaration statement signed by the shipper).
- Rules for document location and storage within a commercial vehicle during transport.
- Document retention requirements for both shippers and carriers (minimum 2 years).

Learning Outcomes:

By the end of this module, learners are able to:

- Accurately complete, verify, or review a TDG shipping document for regulatory compliance.
- Locate and manage paperwork properly inside a transport vehicle according to accessibility laws.
- Ensure the mandatory Consignor's Certification is appropriately executed.

---

4. Safety Marks (Labels and Placards)

Necessary Points:

- The distinction between **Labels** (used on small means of containment) and **Placards** (used on large means of containment/vehicles).
- The physical requirements and look of safety marks (colors, symbols, dimensions).
- Responsibilities for applying safety marks (Shipper) and maintaining/modifying them during transport (Carrier).
- The "Placard Rejection" rule and the DANGER placard criteria.
- Identifying and removing misleading or old safety marks.

Learning Outcomes:

By the end of this module, learners are able to:

- Identify the hazards of a shipment at a glance using labels and placards.
- Determine exactly when and where labels or placards must be displayed on packages and vehicles.
- Recognize and report inaccurate or misleading safety marks.

---

5. Means of Containment (Packaging)

Necessary Points:

- The definition and types of containment: **Small** (450 L or less) vs. **Large** (more than 450 L).
- UN Standardized Packaging requirements and certification safety marks.

- Rules for selecting the correct container based on the chemical class and packing group.
- Safe loading, securing, and filling limits (preventing overfilling and shifting).

Learning Outcomes:

By the end of this module, learners are able to:

- Differentiate between small and large means of containment.
- Interpret UN packaging compliance marks to verify if a container is legal and safe for a specific substance.
- Apply general safety protocols for loading and securing hazardous cargo safely.

---

6. Special Situations and Exemptions

Necessary Points:

- Common exemptions and special provisions that ease regulatory burdens (e.g., Limited Quantities, 150 kg gross mass exemption, personal use).
- How to locate and apply special provisions found in **Schedule 2**.

Learning Outcomes:

By the end of this module, learners will be able to:

- Identify whether a shipment qualifies for a partial or full TDG exemption.
- Apply Schedule 2 special provisions correctly to specific transport scenarios.

---

7. Emergency Response & Incident Reporting

Necessary Points:

- What constitutes a "Dangerous Occurrence" (spills, leaks, or immediate threat of release).
- Understanding **Emergency Response Assistance Plans (ERAP)**—when they are triggered and how to activate them.
- Reporting thresholds and mandatory notifications (CANUTEC, local authorities, provincial environments, and employers) in the event of an accidental release.

- eSafetyFirst dedicates a full slide in the module to the different reporting authorities in each province and jurisdiction in Canada.

Learning Outcomes:

By the end of this module, learners are able to:

- React appropriately and safely to a dangerous goods emergency or spill.
- Determine when an incident requires reporting and successfully identify the appropriate authorities to contact.

Non-technical points:

- ~~Module 2 Slide 11 – there is a misspelling. The table reads CARTIDGES when it should read CARTRIDGES. The table is not laid out the same as what is in Schedule 1 and it might confuse learners. A screenshot from the original schedule is below showing the information in columns instead of rows:~~

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6		Column 7	Column 8	Column 9
UN Number	Shipping Name and Description	Class	Packing Group/ Category	Special Provisions	**6(a)** Explosive Limit and Limited Quantity Index	**6(b)** Excepted Quantities	ERAP Index	Passenger Carrying Vessel Index	Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index
UN0004	AMMONIUM PICRATE dry or wetted with less than 10% water, by mass	1.1D	II		5	E0	75	10	Forbidden
UN0005	CARTRIDGES FOR WEAPONS with bursting charge	1.1F	II		0	E0	75	Forbidden	Forbidden
UN0006	CARTRIDGES FOR WEAPONS with bursting charge	1.1E	II		0	E0	75	10	Forbidden
UN0007	CARTRIDGES FOR WEAPONS with bursting charge	1.2F	II		0	E0	75	Forbidden	Forbidden
UN0009	AMMUNITION, INCENDIARY with or without burster, expelling charge or propelling charge	1.2G	II		0	E0	75	10	Forbidden

This has been corrected with a revised slide

- ~~Module 3 Slide 6 talks about shipping document locations but doesn't offer any examples. It would be appropriate if the narrator noted there would be more about that further on in the module.~~ **A new slide fixes this**
- ~~Module 5 Slide 11 shows a truck and trailer from Europe, no TDG markings on it.~~ **A new image has been added that corrects this.**

References:

Transport Canada – Dangerous Goods https://tc.canada.ca/en/dangerous-goods

Transportation of Dangerous Goods Regulations (SOR/2001-286) - https://laws-lois.justice.gc.ca/eng/regulations/sor-2001-286/

Transportation of Dangerous Goods Regulations (SOR/2001-286) Schedule 1 - https://laws-lois.justice.gc.ca/eng/regulations/sor-2001-286/page-31.html

Transportation of Dangerous Goods Regulations (SOR/2001-286) Schedule 2- https://laws-lois.justice.gc.ca/eng/regulations/sor-2001-286/page-32.html#h-1230891

Transportation of Dangerous Goods Regulations (SOR/2001-286) Schedule 3 - https://laws-lois.justice.gc.ca/eng/regulations/sor-2001-286/page-33.html#h-1231646



Kevin Barrett CRSP CRM 13-4856