

Safety Training 101



**RECYCLE YOUR
BATTERIES,
CANADA!**
powered by **call2recycle**

Welcome to *Recycle Your Batteries, Canada!*

Training Overview

Objectives

1. Identify and responsibly manage end-of-life batteries.
2. Understand program requirements for safe battery shipping.
3. Comply with Transport Canada (TC) regulations.

You'll Learn

1. About *Recycle Your Batteries, Canada!*, Batteries 101, and program basics.
2. How to safely handle, prepare, and ship batteries.
3. What marketing and program resources are available, and how to access.



About the Program



WHAT IS IT?

Powered by the non-profit Call2Recycle, *Recycle Your Batteries, Canada!* is the country's largest household battery collection and recycling program, with nearly 15,000 drop-off locations nationwide.



HOW DOES IT WORK?

Funded by producers (manufacturers, retailers, importers, distributors) to ensure the batteries they produce and/or sell are responsibly recycled when they reach their end of life.



WHAT IMPACT HAS IT HAD?

Since its inception, the program has recycled over 50 million kilograms of batteries, keeping them out of landfills and recovering valuable materials used to create new batteries and other products.

Protect What Matters. Be Battery Safe.

- Mishandling or throwing away batteries can cause fires, putting people, property, and the environment at risk.
- To keep battery recycling safe, we all have a role to play.

Training = Prevention. Together, we can prevent these safety risks:



Thermal Events

Unprotected batteries can cause fires.



Improper Shipping of DDR Batteries

Damaged/Defective/Recalled batteries cannot go into any Call2Recycle collection container.
Use special packaging.







Jostling of Batteries

Movement during transport can cause unintentional damage.

Battery 101

Common terms used throughout the course:

	Damaged, Defective, Recalled (DDR)	Batteries showing signs of swelling, leaking, burn marks, or part of a recall - require special handling, labeling, and packaging.
	Transport Canada Equivalency Certificate	This certificate exempts Call2Recycle Canada and any participating battery program collector from certain requirements under TDG regulations to handle, offer for transport or transport by road or railway vehicle, or by vessel in Canada.
	Primary (Single-Use) Battery	One-time use, they cannot be recharged. Common chemistries include Alkaline, Lithium metal, and Zinc-carbon (comes in various shapes and sizes like AA, AAA, 9V, C- and D-cell, and Button cell).
	Rechargeable Battery	Can be recharged and reused multiple times. Common chemistries include Nickel Cadmium (Ni-Cd), Nickel Metal Hydride (Ni-MH), Lithium Ion (Li-Ion), Small Sealed Lead Acid (SSLA/Pb).

Materials Accepted

Call2Recycle's consumer battery program – *Recycle Your Batteries, Canada!* – is designed to handle single-use and rechargeable batteries up to 5 kgs. For other types of battery and battery-containing devices, Call2Recycle operates additional programs including *Recycle Your Vapes* in Quebec, EV Battery Services across Canada and more. Details can be found on our website [here](#).



Accepted



- Rechargeable Batteries (up to 5 kgs)
 - Lithium Ion (Li-Ion)
 - Nickel Cadmium (Ni-Cd)
 - Nickel Metal Hydride (Ni-MH)
 - Nickel Zinc (Ni-Zn)
 - Small Sealed Lead Acid (SSLA/Pb)



Single-Use Batteries

- Alkaline (AA, AAA, 6V, 9V, C, D)
- Button and Coin Cell
- Lithium Primary



NOT Accepted



- Damaged or Defective Lithium or Lithium Ion Batteries (See *DDR* section)
- Batteries Part of a Recall (See *DDR* section)
- Wet-Cell Batteries (i.e. car batteries)
- No Batteries over 5 kgs
- No E-Mobility Batteries (i.e., e-scooter, hoverboard, e-bike)*

*E-mobility batteries are accepted in bulk containers in some jurisdictions. Consult your Account Manager to confirm if you are eligible.

Terminal Protection




Safety First!

- Many batteries hold a residual charge even when they appear dead. If that battery comes into contact with other batteries or metal, a short circuit can occur, causing a thermal event (or fire).
- All battery shipments in Call2Recycle's consumer battery program – *Recycle Your Batteries, Canada!* – **must follow Transport Canada regulations**, including protecting terminals of certain battery types.
- For lithium-ion, small sealed lead acid, or lithium primary and alkaline batteries that are 12V or more, there are two options for terminal protection: **Bagging or Taping**.




Terminal Protection

- Transport Canada requires terminal protection (bagging or taping) for the following battery types:

 **TERMINAL PROTECTION
REQUIRED**

- **Rechargeable Batteries**
 - ALL Lithium Ion (Li-Ion)
 - ALL Small Sealed Lead Acid (SSLA/Pb)
- **Primary Batteries**
 - ALL Lithium
 - Button Coin Cell
 - Alkaline (over 12V)

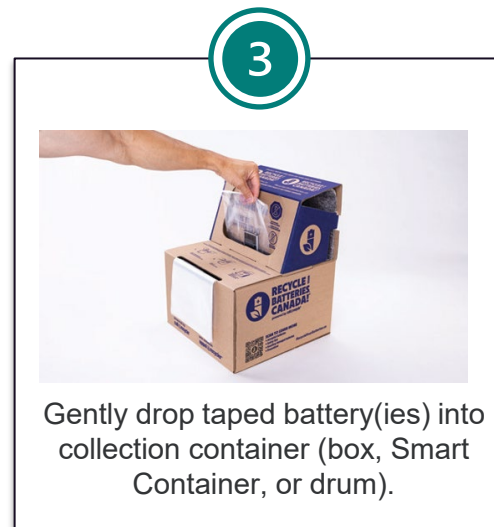
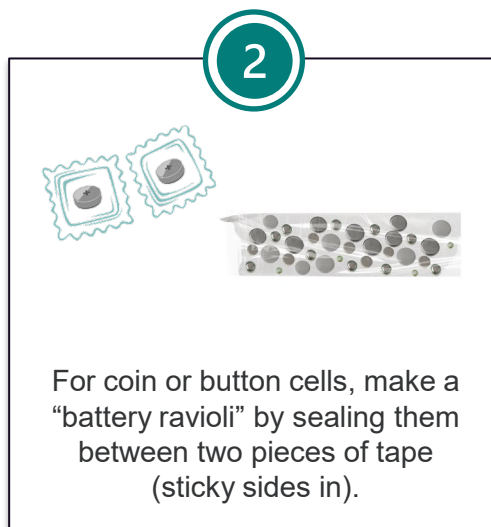
 **TERMINAL PROTECTION
NOT REQUIRED**

- **Rechargeable Batteries**
 - Nickel Cadmium (Ni-Cd)
 - Nickel Metal Hydride (Ni-MH)
 - Nickel Zinc (Ni-Zn)
- **Primary Batteries**
 - Alkaline (under 12V)
 - Carbon Zinc



Not sure if the battery requires terminal protection? Play it safe and bag it!

Option 1: Tape Terminals



Not sure if the battery requires terminal protection? Play it safe and bag it!

Option 2: Bag and Seal

ONLY USE CLEAR PLASTIC BAGS



Call2Recycle-provided



Produce



Ziploc®



Colored or Grocery bags

DO NOT USE



Paper bags



Paraffin or other dipping products

1



Place each required battery in an appropriately sized bag. Don't put multiple batteries in a bag.

2



Place the battery in the bag and seal/zip/tie to secure contents.

3



Gently drop bagged battery into collection container (box, drum, or Smart Container).



Not sure if the battery requires terminal protection? Play it safe and bag it!



Daily Safety Checklist

- The *Recycle Your Batteries, Canada!* program is designed to make battery collection and recycling simple and safe.
- Collection partners still have important daily responsibilities:
 - ☒ **No Damaged Containers:** Ensure containers are not damaged.
 - ☒ **Container Usage:** Ensure containers are being used as intended, including liners are intact, labels in place, etc.
 - ☒ **Container Placement:** Ensure containers are placed in a safe place, including in a cool area away from heat sources.
 - ☒ **No Loose Batteries:** Ensure no loose batteries are around the container.
 - ☒ **Terminal Protection:** Ensure all required batteries are bagged or taped.
 - ☒ **No DDR Batteries:** Confirm Damaged, Defective, or Recalled (DDR) batteries are not inside the drums or collection boxes.
 - ☒ **No Trash or Foreign Items:** Only accepted batteries are inside the collection container.
- See the “DDR” section for further instructions.

Damaged / Defective / Recalled (DDR) Batteries



Damaged / Defective / Recalled (DDR): Special Handling



- Lithium-ion or lithium batteries that are swollen, smoking, leaking, overheating, or are part of a recall are considered DDR.
- **NEVER** place DDR batteries in collection boxes, Smart Containers, drums, blue bins, or garbage.
- They require special packaging for shipping. Contact [Call2Recycle](#) or order DDR kits on our [Order portal](#) if you don't have one on hand.



Damaged / Defective / Recalled (DDR): Special Handling

- 1 **Identify Battery Chemistry:** Look on the battery label or outer packaging to find the battery's chemistry.

Is the Damaged / Defective battery

- Alkaline
- Nickel Cadmium (Ni-Cd)
- Small Sealed Lead Acid (SSLA/Pb)
- Nickel Metal Hydride (Ni-MH)



Place in a clear plastic bag and deposit directly into a Call2Recycle-approved collection container.



- Lithium metal
- Lithium-ion



Damaged lithium metal or lithium-ion batteries **MUST** go into a special DDR container. See Step 2.



Damaged / Defective / Recalled (DDR): Special Handling

2 Safely Store

- Place DDR batteries in non-flammable material, such as sand or baking soda, while you arrange for safe drop-off.
- Place DDR batteries in a metal container that is lined.
- Store the container away from heat, sparks, and flammable items.



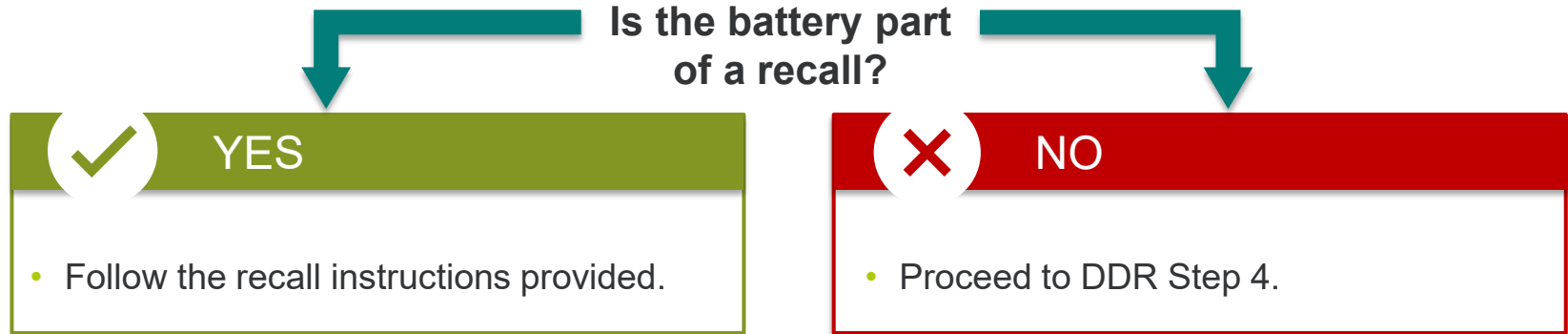
DO NOT place batteries in the garbage, blue bin, or ANY Recycle Your Batteries, Canada! collection container provided by Call2Recycle!



Damaged / Defective / Recalled (DDR): Special Handling

3 Check for Recalls

- Visit Health Canada's [Consumer Product Safety](#) website or the manufacturer's website to see if the battery is part of a recall.



DO NOT place batteries in the garbage, blue bin, or ANY Call2Recycle collection container!

Damaged / Defective / Recalled (DDR): Special Handling

Damaged lithium metal or lithium-ion batteries **must** be placed in special DDR containers for shipping and disposal.

4 Arrange Safe Drop Off

- **Use the right kit:** Call2Recycle provides specially-protected and permitted DDR kits in multiple sizes.
 - **Package safely:** Place DDR batteries into a Call2Recycle-provided DDR kit and follow the instructions for safe, compliant packaging and shipping to the recycler.
- [Click for instructions](#)
- **Need a kit?** If you don't have one, order a DDR kit through our [Order portal](#) or contact Call2Recycle Customer Service: customerservice@call2recycle.ca or by phone at 1.888.224.9764.



DO NOT place batteries in the garbage, blue bin, or ANY Call2Recycle standard collection container!

Safe Shipping



Approved Containers

It is important to inspect and confirm that you only use the approved collection containers listed below before shipping your materials.



Boxes



If you collect in standard boxes, ensure you only use boxes provided by Call2Recycle. Ensure boxes are stored in a cool, dry place and inspected daily.



Smart Containers



Do not place Damaged, Defective, or Recalled (DDR) batteries in any standard Call2Recycle container.



Bulk Shipping



Call2Recycle accepts batteries returned in:

- UN-rated steel drum (Rated to Packaging group 2) with plastic liner.

Drums must have an open head with lever locking ring lid and be stored in a cool, dry place.



For detailed shipping instructions for all collection containers, visit our [shipping page](#).

Safe Shipping

For all approved containers, it is important to follow the guidelines below in accordance with Transport Canada requirements:



1. Cells and batteries must be packed in accordance with the following:

- a. Metal Drums.
- b. Packagings must conform to the packing group II performance level.
- c. Metal packagings must be fitted with an electrically non-conductive lining material (i.e., plastics) of adequate strength for the intended use.

2. Protection against short circuits and the dangerous evolution of heat includes, but is not limited to:

- a. Individual protection of the battery terminals.
- b. Inner packaging to prevent contact between cells and batteries.
- c. The use of an electrically non-conductive and non-combustible cushioning material to fill empty space between the cells or batteries in the packaging.

3. Cells and batteries must be secured within the outer packaging to prevent excessive movement during transport (i.e., by using a non-combustible and electrically non-conductive cushioning material or through the use of a tightly closed plastics bag).



For detailed shipping instructions for all collection containers, visit our [shipping page](#).

How to Ship: Inspect *then* Ship!

Whatever approved container you collect and ship in (standard collection boxes, Smart Containers, Drums, or boxes on a pallet), the goal is the same: **ship it safely!**



Batteries are Terminally Protected

Ensure all required batteries collected have been properly bagged or taped to protect terminals.



No DDR Batteries

Do not place Damaged, Defective, or Recalled (DDR) batteries in any standard Call2Recycle container.



No Trash or Foreign Objects

Confirm only accepted batteries are inside the container.



Check All Containers

All containers should have proper labels, UN markings, sealed correctly and include accurate shipping paperwork.



For detailed shipping instructions for all collection containers, visit our [shipping page](#).

Marketing Support & Program Resources



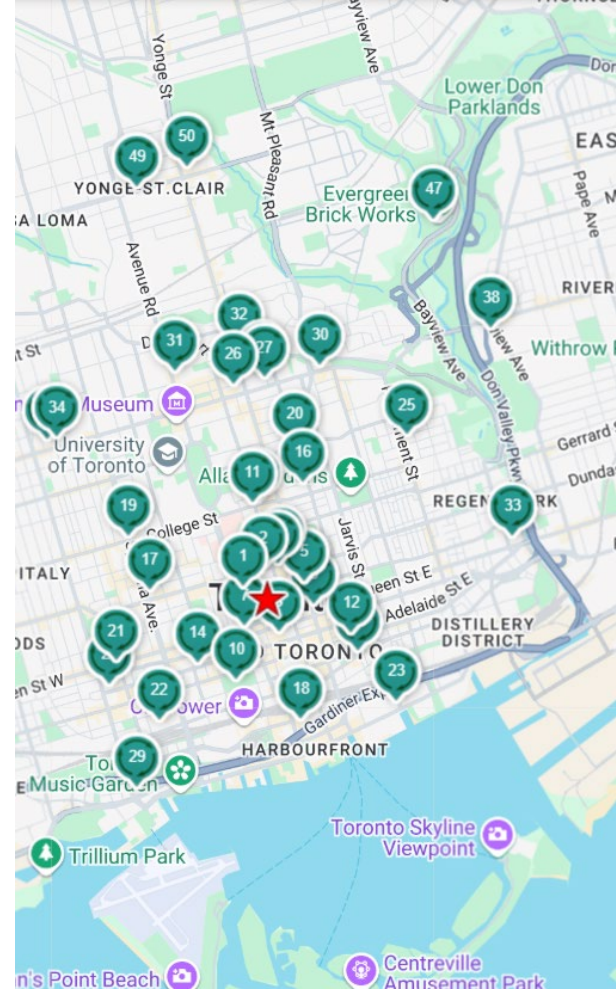
Education & Awareness: Toolkits & Resources

- Call2Recycle executes advertising campaigns to educate consumers about why, when, and where to recycle their batteries through the *Recycle Your Batteries, Canada!* program.
- Posters and social media graphics are also available to you for promoting your participation in the program.
- Access these resources on our website [here](https://www.call2recycle.ca).

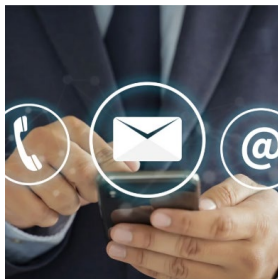


Drop-Off Locator

- As a collection site, you can choose to be public (consumer drop-off) or private (internal use only).
- Public collection sites are listed on our [Drop-off locator](#).
- Consumers can find their closest drop-off location by entering their postal code.
- Locations become inactive and are removed from public listing if no activity occurs (batteries shipped or boxes ordered) within 12 months.
- To re-activate your location, please contact [customer service](#).



Quick Reference: Resources & Support



Program Questions Website or Contact Us

- Web: call2recycle.ca/safety
- Email: info@call2recycle.ca
- Phone: 1-888-224-9764



Box Program Resources

- [Re-Order Collection Materials](#)
- [Terminal Protection Guide](#)
- [How to Ship](#)



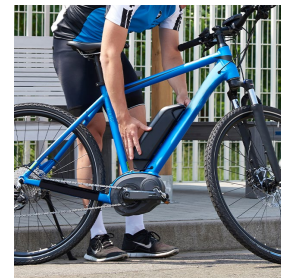
Bulk Program Resources

- [Receiving Materials Tip Sheet](#)
- [Pre-Shipping Tip Sheet](#)
- [Shipping Tip Sheet](#)



DDR Batteries Resources

- [Handling Instructions](#)
- [DDR Kit Packaging Guide](#)
- [Order a DDR kit](#)



E-Mobility Program Resources

- [Program Overview](#)
- [E-Mobility Box Kit Guidelines](#)
- [E-Mobility DDR Guidelines](#)

**Thank you for your continued
commitment to safe & responsible
battery collection & recycling!**

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