

Shipping Guidelines

2022 Maritime RobotX Challenge

www.robotx.org

Introduction

Teams are required to submit a shipping plan for their Wave Adaptive Modular Vessel (WAM-V), other supporting equipment and batteries. In order to facilitate shipping of equipment to Australia and to help clear customs and ensure compliance with all Australian government agencies, an official freight forwarder has been selected.

TGL (Think Global Logistics)

Contact: Jack Harrington
Level 2, 88 George Street
The Rocks, NSW 2000 Australia
E-mail: jack.harrington@tgl.co

Each 2022 RobotX Team will be given a shipping credit with TGL for RobotX WAM-V shipping, see [Team Shipping Credit](#) section for more information.

Shipping Requirements

Teams are responsible for completing all of the requirements as outlined below.

Shipping Plan

- Shipping plans must be uploaded to your team's registration task list by **September 25, 2022**.
- Required information
 - Pick-up address
 - Piece count / Number of crates
 - Commodity / detailed list of items in each crate
 - Approximate Weight of each piece/crate
 - Dimension of each piece/crate
 - Details on insurance coverage for the shipment
 - Name / contact information for the shipping agent and copies of any bills of lading for the shipment

Dates for Equipment Arrival

- Teams are encouraged to arrange shipping of their vehicle to ensure it arrives within the prescribed window. This is done to accommodate a two-week processing time for incoming freight.
 - Shipment arrival to Sydney, **no earlier than: 14 October**
 - Shipment arrival to Sydney, **no later than: 28 October**

RoboNation Responsibilities

- Receive shipment in Sydney, Australia
- Storage of shipment from October 14 – 2 December
- Delivery of shipment to/from Sydney International Regatta Centre, Penrith, NSW, Australia
- Storage of containers during competition
- Delivery of shipment to port (air or ocean) by November 28

Team Shipping Credit

- Each 2022 RobotX Team has been awarded a shipping credit. Teams that registered before February 20, 2022 have received up to a total of \$5,000. The remaining teams have received up to a total of \$1,000. Additional credits were awarded to redeem VRX 2019 awards. All shipping stipends will be credited to the teams through their TGL account. RoboNation has determined these shipping stipend amounts for each RobotX team in hopes to support each team have the means to ship equipment via air to the competition and via ocean back to their home countries.
- Teams are to use this credit when arranging their round-trip shipping with TGL.
- Teams must use TGL for shipping to access the shipping credit.
- Teams must contact the TGL representative to arrange their shipping.
- If the total cost of round-trip shipping exceeds the shipping credit, the team is responsible to pay the difference to TGL.
- If the total cost for round-trip shipping is less than the shipping credit, TGL cannot refund any remaining part of the shipping credit to the team.

Temporary Importation

Certain goods may be temporarily imported into Australia for a period of up to 12 months without the payment of duty or taxes provided certain conditions are met. The nature of the goods, what they will be used for while they are in Australia and who is importing the goods will determine whether the goods will qualify.

Goods that qualify as temporary imports may be imported either:

- under carnet – where a security is lodged with an overseas carnet-issuing body
- under security – where a security is lodged with us at the time of import

There are two sections of the Customs Act 1901 (the Act) under which temporary importation may be granted. **Section 162** of the Act allows for the temporary importation of certain classes of goods, including certain goods imported for use at a public exhibition or public entertainment.

For detailed import information, see <https://www.abf.gov.au/importing-exporting-and-manufacturing/importing/how-to-import/temporary-imports>

Battery Shipping Guidelines

- Shipping guidelines for all types of batteries differ by country and by carrier. See below for reference information that we have to date by country. Please check with your individual shipper for detailed shipping and dangerous goods information.
 - **USA / Japan / Singapore**
 - Lithium battery chemistry can be categorized as Li-ion or lithium-metal. Lithium batteries in certain quantities must be shipped as dangerous goods.
 - They must be specially packaged, labeled with caution labels and shipped separately from the WAM-V. If shipped with the WAM-V, the entire shipment is likely to be handled and priced as dangerous goods.
 - Each battery shipment must be accompanied by the Shipper's Declaration for Dangerous Goods.
 - <https://www.iata.org/contentassets/a9f496cd8c87466b98142fa6d4cdb209/shippers-declaration-column-format-fillable.pdf>

- **China**
 - A Certificate for Safe Transport of Chemical Goods must be obtained. Reference information:
 - <http://www.ponytest.com/Article/ShowInfo.asp?InfoID=553>
 - <http://www.ghs.cn/upload/FCKeditor/2009-12/18104443.pdf>
 - **Australia**
 - Guidelines and classifications of battery types and weights for Australia are similar to those in the US. The guidelines below are specific to Class II batteries, but at the very bottom of the page, it states that these requirements are the same for Section 1A & 1B batteries.
 - https://www.tnt.com/dam/tnt_express_media/en_au/download_documents/about_us/lithiumbatteriesflowchartcustomerversion-v6.pdf
 - https://www.tnt.com/express/en_au/site/how-to/ship-dangerous-goods.html#
- Lead acid batteries should be packaged to prevent leakage or short circuits. Lead acid batteries have been classified as dangerous goods by the TSA and cannot be flown without a dangerous goods declaration. Check to see if lead acid batteries can be shipped by ocean with your WAM-V without a dangerous goods classification.
 - Teams must review the Battery Shipping References and comply with all packaging and shipping requirements outlined based on the type and size of battery they are using.

Battery Shipping References -

- https://www.iata.org/contentassets/a9f496cd8c87466b98142fa6d4cdb209/iata_edgd_implementationguide.pdf
- <https://batteryuniversity.com/articles>
- https://batteryuniversity.com/learn/article/how_to_transport_batteries
- https://www.tnt.com/dam/tnt_express_media/en_au/download_documents/about_us/lithiumbatteriesflowchartcustomerversion-v6.pdf

Shipping Assistance -

- RoboNation can help get answers to your shipping questions. Please contact Cheri Koch at ckoch@robonation.org and she will be happy to assist.

Customs Requirements

Teams are responsible for completing all required shipping documentation. Common forms include:

Customs Power of Attorney

- A Customs Power of Attorney is a limited power of attorney that will allow a customs broker (if the team is utilizing a customs broker) to fill out and sign customs and other federal government documents on behalf of the shipment owner.

Importer Security Filing

- This is a form specifically for ocean imports only.
- The Importer Security Filing form must be filled out and submitted to the customs broker or freight forwarder, at least 2 business days before the shipment leaves the exporting country. The customs broker or freight forwarder can fill out this form.

Carnet (optional)

Teams are encouraged to use a carnet when shipping their WAM-V to Australia.

- Fees for carnets vary by location.

Shipping Label:

FROM: School Name

Address

City, State, Zip

Country



**RobotX / School Name
c/o TGL
150 Milperra Road
Revesby, 2212, NSW, Australia**

School POC Name:

Phone:

Outbound Shipping (Returning Home)

Teams are responsible for their outbound shipping arrangements with TGL or another carrier. Shipments should be scheduled to depart Sydney **no later than: 2 December**. If teams have not used all of their shipping credit, the remainder will be applied to their outbound shipping.

Battery Shipments

- **RoboNation will have a certified Hazardous Materials inspector available during pack-out. Times TBD**
- Please turn in the following information to Cheri Koch for your shipment

School Name	
Shipping Address	
Shipping Company	
Piece count / Number of crates	
Battery crate count	
Type of batteries	
Manifest	Send to ckoch@robonation.org
Team Shipping POC	
E-mail for Team Shipping POC	

Inbound Shipping Checklist

Remove all old shipping stickers	
Shipping address - all four sides of crates	
Bill of Lading - attached to at least two sides of crate	
Packing List – attached one to the outside of crate	
Haz Mat Stickers - attached to min two sides	
Battery crate inspected by Haz Mat specialist	
Hazardous Materials Form signed	
Manifest – e-mail to ckoch@robonation.org	

Outbound Shipping Label:

FROM:
RobotX / School Name
c/o TGL
150 Milperra Road
Revesby, 2212, NSW, Australia



School POC Name:

Phone:

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