

Update to the Torpedo Recovery Mission

as of 24 January 2018

Tag Challenge

The Tag Challenge was presented at the kick off meeting but the final design of the item was not finalized at the time. The design is not final. The ring is about six inches in diameter using fishing clips to connect to the magnet and the fishing float. The magnet is about one inch wide, 1/4 inch thick, and two inches high. It uses a short part of a tie wrap as a handle, which is held on by tape. The challenge consists of picking up the item from the bottom of the pool and attaching the magnet part to a metal plate on the torpedo as shown in the video. This is the first challenge to be done. Robots can use either a electromagnet or a fixed magnet on the torpedo portion of the overall challenges. If a robot uses a fixed magnet and manages to adhere it to the magnet on the tag challenge, the team has three options: 1) attach the tag to the torpedo and hope you can detach the robot from the tag; 2) try and knock it off; or 3) bring it to the edge of the pool, in which the team removes the tag and tosses it back to the bottom of the pool and then they try again.

National Challenge Component

The mission challenge we will **NOT** have the rod items as shown on the National's website. The mission will only be using the cube and the ring. The cube and ring must be placed on the plate on top of the box. There is not a hole in the plate as shown on the video. The plate was scrap material which happen to have a hole in it. The hole will not be there during the competition. Both the cube and the ring has to be on the plate to get the points for each of those items. If one falls on the deck, then the team can try again to put on the plate, if time allows. If the item falls into the box, it is no longer in play and will not be scored.