



All hands on deck as you and your shipmates hang and focus a Source Four to project the Jolly Roger on a designated sail or surface. Let your skills strike fear in the hearts of every landlubber as your crew works together to signal the arrival of your own pirate band.

THE EVENT

This classic Tech Challenge entry has been reconfigured as a relay, involving all four members of your team. Each member will participate in a specific part of the sequence of properly hanging and focusing a Source Four Ellipsoidal, including using a gobo and gel.

The challenge setup includes a pipe stand for the instrument, and a surface to project the image on. Necessary tools and supplies will be on a table a few feet from the pipe stand. Opposite the table is a designated surface to display the gobo-produced image.

Person 1 starts the clock and securely hangs the instrument on the pipe stand. Person 2 powers on the instrument and focuses it at the designated wall location. Person 3 inserts and focuses the gobo image. Person 4 adds the correct gel color and fine tunes the focus before stopping the clock.

All adjustments will be made from behind the instrument, heeding a line on the floor (imagine this is the edge of a catwalk or scaffolding platform).

Wrenches and gloves will be provided. Teams may not use their own wrench but may use their own gloves.

For this exercise, instruments must be hung with the pipe clamp opening facing you. The tools you select to use must be tethered to your wrist and cannot be placed on the floor or in your mouth.

NOTE: For the Qualifying Round, you may determine your team's order (designating who does what), but this order may be randomized during Finals!

REQUIRED SEQUENCE

The instrument and all necessary tools will be preset on a table a few feet from the mounting pipe. Items may be brought from the table to the pipe stand, but may not be placed on the floor, tethered around the neck, or put in your mouth. Team members wait behind the table.

Person 1: Start the clock, bring the instrument to the pipe stand, hang the instrument with the clamp opening toward you (working behind the instrument). Close the clamp, attach the safety cable, then tighten the clamp using the wrench. You may unwrap the power cable and open the shutters. No further adjustment should be necessary to the pipe clamp bolt.

Person 2: Unwrap the power cable, tilt the instrument into position, and open the shutters if not already open. Plug the instrument into the provided receptacle, managing the cable. Power on the instrument and focus the beam to a hard-edged circle on the designated projection area. No further adjustment should be necessary to the yoke bolt or yoke locking knob.

Person 3: Put the supplied gobo in its holder and insert it properly into the instrument. Sharpen the focus to project the image correctly onto the designated surface. (Note: If the instrument is upside down, you must correct this error and incur a penalty.) No further adjustment should be necessary to the instrument's focus.

Person 4: Roll the die to determine the gel color. Select the correct gel and put it in its frame. Insert the gel frame into the instrument slot carefully, closing the clip, being careful not to affect its focus. (Note: If the instrument is upside down or loses focus, you must correct these errors and incur any penalties.) Once the instrument and image are in focus, stop the clock.

PENALTIES ISSUED FOR:

- Dropping items, placing them on the ground, or in your mouth.
- Gloves not always worn.
- Items tethered around the neck.
- Gel frame not installed properly.
- Pipe clamp opening not facing installer.
- Instrument hung upside down.
- Safety cable not used properly.
- Instrument powered on with shutters closed.
- Any adjustment not sufficiently tightened.
- Failure to follow sequence.
- Incorrect gel selection.
- Leaving image backwards or upside down.

