



## Facilitator Role

The Facilitator manages all the technical details of Workshop and Challenge Days of the Fluid Power Action Challenge.

## Responsibilities

- Checking and organizing the shipment of the [Challenge kits](#).
- Building the simple layout board for the competition.
- Making sure students have all the instructions they need and guiding them through Workshop and Challenge Day.
- On Workshop Day, the Facilitator teaches students basic fluid power concepts, guides them through building simple pneumatic kits and presents the Challenge problem and layout that they must solve for Challenge day.
- On Challenge Day, the Facilitator is the emcee, keeping everything on schedule and working with the judges to manage the Challenge competition.

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## Facilitator Resources

[The following resources can be accessed here.](#)

### 2-3 months before:

- Start by reading through the Notes for Facilitators and Teachers
- Familiarize yourself with the following files and prepare copies for the Workshop Day and Challenge Days.
  - 2021-22 Challenge Scenario (2 per team)
  - Challenge Layout dimensions ISO\_ Ortho (1 per team)
  - Challenge Rubric (2 per team)
  - Challenge Rules (1 per team)
  - Judging Rubric (1 per team)
  - Challenge Pre-survey for Students (1 per student)
  - Challenge Post-survey for Students (1 per student)
  - Teacher Feedback Survey (1 per teacher)
- **Presentations**
  - Introducing the Challenge
  - Rotating Platform Instructions (1 per team)
  - Lifter Instructions (1 per team)
  - Introduction to Fluid Power -Video Presentation
  - Fluid Power Careers (Sample)
  - Iso/Ortho Views Explained (1 per team)
- **Supplemental Materials and Instructions**
  - Fluid Power Fundamentals
  - Tips for Teachers and Mentors
  - Hints for Device Design & Construction (2 per team)
  - Building a Cube Instructions (legal)



- Process Cube Sides (legal) (1 per team)
  - Design Process Diagram (1 per team)
  - Portfolio Checklist (1 per team)
  - Portfolio Template (1 per team)
  - Mid-Project Checklist
  - Workshop Day Teacher Meeting
  - Middle School Portfolio (Sample)
  - High School Portfolio (Sample)
  - Daman Team Portfolio (Sample)
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## Frequently Asked Questions

### **Q: Is there a layout board sharing program?**

A: The Challenge problem changes every year, therefore so does the layout board. Many current Fluid Power Action Challenge hosts are willing to share their layout board. This will work best if you are in close proximity to another Challenge host as shipping costs for a layout board can be expensive.

### **Q: Do you have a mentor program to help if questions come up?**

A: Yes! We have experienced Fluid Power Action Challenge hosts that you can contact with related questions. *All you have to do is contact us at [workforce@nfpa.com](mailto:workforce@nfpa.com) to get connected!*