



Fluid Power Action Challenge - Procedures for an “In-School” Event.

The following is a list of steps that teachers and organizers will take to plan and execute the Fluid Power Action Challenge.

Actions	Deadline	✓
Prior to Challenge - Teachers		
Read <i>Notes for Teacher-Organizers</i> file carefully, paying attention to how much time will be required both on your part and that of your students.		
Receive and check contents of shipment of kits against packing list. If any items are missing, contact: kits@workservicescorp.com		
Review documentation and support materials		
Set overall timeframe for project and detail length of “learning episodes” (e.g. 3 X 1-hour classes per week)		
Estimate timeframe over which the students will do the Introductory “Workshop” activities and the timeframe for design and building their device and finishing their portfolio		
Set the date for the Challenge event when the four-member team(s) will build and demonstrate their device		
Progression through to the Challenge		
Watch the Introduction to Fluid Power video		
Review the documentation for the team		
Introduce materials, tools, and construction methods by building a Design Process Cube and demonstrate drilling a hole in the plunger of a syringe		
Build the Lifter, Clamp, and Rotating Base from Workshop Kit Devices		
Review the Challenge Scenario in detail		
Make students aware of the importance of the Design Process and how to score points in the Portfolio		
Explore the materials and tools available for building the Challenge Scenario device		
The team builds a prototype and writes/illustrates the team’s Portfolio		
Interview questions will be written responses documented in the portfolio by all team members, each responsible for one question		
Teacher and Organization		
Organize an in-school Challenge Event and ensure communication channels are open with Host		
Have students complete and submit media release forms		
Facilitate an “in-school” Challenge Day: team(s) build, test and demonstrate device; teacher uses Judges rubric to evaluate the team’s work and its device including interview questions.		
Complete and distribute certificates to students; then, complete and submit feedback to NFPA		