FLUID POWER ACTION CHALLENGE Procedures for a "in-school" event.

The following is a list of steps that teachers and organisers will take to plan and execute the Action Challenge

Actions	Deadline	
Prior to Challenge - Teachers		
• Read Notes for Teacher-Organizers 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 support@mechanical-kits.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 prototype 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 Organizers		
• 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 Judge's rubric to evaluate the team's work and its device including interview questions.		
• Complete and distribute certificates to students, and complete and submit feedback form to NFPA		