

N F P A

Fluid Power **ACTION** **Challenge**

HYDRAULICS | PNEUMATICS

YOU'RE INVITED!

Watch as students design & build a device
to solve an engineering problem!

Families and community members are welcome to attend:

WORKSHOP: February 22, 2024, 9:00 am – 2:30 pm
CHALLENGE: April 25, 2024, 9:00 am – 2:30 pm
PLACE: Triton College (Building T)
CONTACTS: Bob Hammond: 630-234-8682 BHammond@deltrol.com
Antigone Sharris: 773-580-8807 antigonesharris@triton.edu

EVENT IS SPONSORED BY:



See It In Action!!

Teamwork ✓
Competition ✓
STEM Education ✓
Problem Solving ✓
Project Management ✓

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NFPA'S Fluid Power Action
Challenge Information and
Resources

WHAT WILL STUDENTS BE EVALUATED ON?

Portfolio

Teamwork

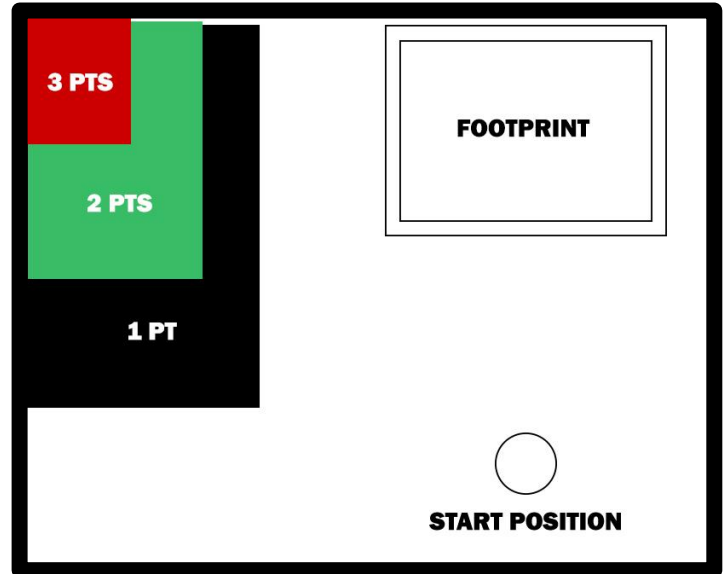
Design Concepts

Device Operation

Interview Questions

Teams are given a full kit of tools to build a solution to the challenge. In the coming weeks they fine tune their skills, develop a plan, and build their prototype. Teams use the portfolio they've created and a new kit of identical supplies to follow their own directions to recreate their unique device.

Teams' devices must sit within the FOOTPRINT and move an object from START POSITION to one of the three zones (see image).



WHAT'S NEXT FOR STUDENTS?



NFPFA

FAST TRACK
to fluid power

NFPFA's Fast Track to Fluid Power is a workforce development pathway that partners local technical colleges with fluid power industry members and high school teachers. These networks create awareness and interest in fluid power and train students along a path that leads to careers in fluid power at NFPFA member companies. Several River Grove area Fast Track High Schools offer fluid power curriculum, so students who want to continue to have fun and learn more about fluid power can enroll in classes in high school such as:

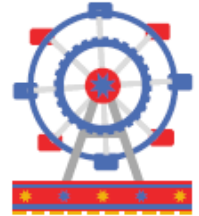
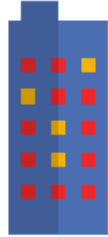
Principles of Engineering | Automation | Systems and Controls

These NFPFA members are mentoring students and providing internships!



FLUID POWER CAREERS ARE HERE, IN YOUR COMMUNITY!

Aerospace • Agriculture • Automation • Biomedical • Construction • Energy • Recreation



TRITON COLLEGE

High school students can apply for a **\$2,000** scholarship to Triton College to continue fluid power education, in engineering technology programs like Mechatronics or Mechanical Design. Visit the link below.



<https://nfpafoundation.org/high-schools/programs-resources/2k-scholarships/>

MECHATRONICS



\$69,190/YEAR*
ASSOCIATE'S
DEGREE

MECHANICAL DESIGN



\$46,850/YEAR*
ASSOCIATE'S
DEGREE

There are many careers within fluid power that involve creativity, team building, problem-solving, innovation and a great salary!



* August 2023 Annual Entry Level Salary: O*NET OnLine – Local Wages - Chicago-Naperville-Elgin