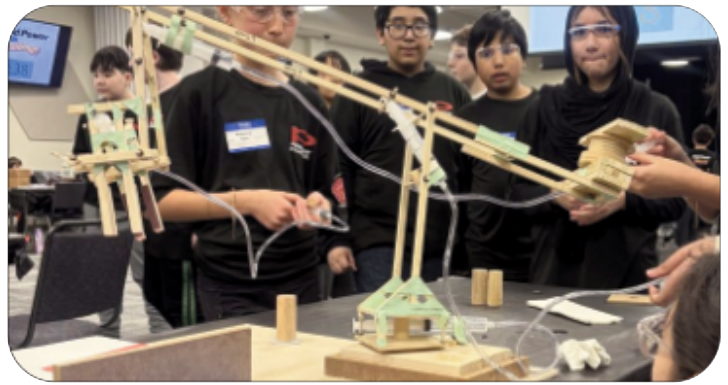


N F P A Fluid Power ACTION Challenge 2027



Macomb Community College and Peninsular Cylinder Company are hosting Michigan's annual NFPA Fluid Power Action Challenge. This hands-on STEM event engages over 100 middle school students, working in teams of four, to solve an engineering problem by building a robotic device powered by fluid technology. Students develop their skills through design, prototyping, and action.

SPONSOR INFORMATION

PUT ENGINEERING TOOLS IN STUDENTS HANDS

Sponsorship helps provide the workshop kits, challenge kits, tools & supplies used throughout the event.

SPONSOR 1 TEAM

\$500

SPONSOR 2 TEAMS

\$1,000

SPONSOR 5 TEAMS

\$2,500



**DONATE ONLINE
-TAX DEDUCTIBLE-**



SCAN QR CODE

Volunteers needed for both events to provide tool guidance, construction advice, tabulate scores, or judge entries.

EVENT DATES

WORKSHOP DAY MARCH 11TH - 9AM-2PM

On Workshop Day students are introduced to fluid power. They are instructed on good design concepts and division of labor. Each team then builds a lifting and a rotating device.



DESIGN & BUILD PERIOD

Over the coming weeks, using only tools and supplies they are given, teams fine tune their design, develop and record their plans in a portfolio, build and test their unique device prototype. Teams do this independently while back at school.

CHALLENGE DAY MAY 25TH - 9AM-2PM

On Challenge Day teams will build their device they've been planning. They will compete in a timed competition to test how many points they can get.



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