

NFPA Education and Technology Foundation



YOU'RE INVITED!

WATCH AS STUDENTS DESIGN & BUILD A DEVICE TO SOLVE AN ENGINEERING PROBLEM!

BRINGING KEY SKILLS INTO ACTION:

- Teamwork
- Competition
- Communication
- Problem Solving
- STEM Education
- Time management
- Project Management

WORKSHOP DATE: TIME: LOCATON: CONTACT:

CHALLENGE DATE: TIME:

VISIT NFPAFOUNDATION.ORG

TEAMS ARE EVALUATED IN 5 AREAS:

PORTFOLIO • WORK HABITS • DESIGN & OPERATION • BOARD COMPETITION • INTERVIEW QUESTIONS
(55) (10) (10) (80) (20)



Objective: Teams design a device to move an object from the starting position to one of three zones in a timed competition.

WORKSHOP DAY

Teams are given a full kit of tools and materials to build a solution to the challenge. In the coming weeks they fine tune their skills, develop a plan and build their prototype.

CHALLENGE DAY

Teams use the portfolio and a new kit of identical materials to recreate their unique device and compete on the challenge board.

THE FLUID POWER ACTION CHALLENGE GIVES STUDENTS EXPERIENCE IN HANDS-ON LEARNING, PERSERVERANCE, & INTRODUCES THEM TO CAREER OPTIONS.

FLUID POWER INDUSTRY & CAREER EXAMPLES

• AEROSPACE • AGRICULTURE • AUTOMATION • BIOMEDICAL • CONSTRUCTION • ENERGY



Fluid Power Salaries Overview

Joł	o Title	Job Salary*	Job Outlook - 2032 -	Education Level
Manud S Repres	facturing ales sentative	\$73,080*	1,701,400	Bachelors Degree
Sales	Engineer	\$116,950*	63,400	Bachelors Degree
Inde Mac Mee	ustrial chinery chanic	\$61,170*	503,300	High School
Mec Enç	hanical gineer	\$99,510*	323,900	Bachelors Degree
Mec Engin Tecl	hanical neering nnician	\$64,020*	40,700	Associate's Degree

*SALARIES REPRESENT MEDIAN PAY IN 2032

SOURCE: ALL STATISTICS FROM U.S. BUREAU OF LABOR STATISTICS



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