



# 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:** 

**CHALLENGE DATE:** 

TIME:

TIME:

**LOCATON:** 

**CONTACT:** 

**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

Job Title	Job Salary*	Job Outlook - 2032 -	Education Level
Manufacturing Sales Representative	\$73,080*	1,701,400	Bachelors Degree
Sales Engineer	\$116,950*	63,400	Bachelors Degree
Industrial Machinery Mechanic	\$61,170*	503,300	High School
Mechanical Engineer	\$99,510*	323,900	Bachelors Degree
Mechanical Engineering Technician	\$64,020*	40,700	Associate's Degree

\*SALARIES REPRESENT MEDIAN PAY IN 2032 SOURCE: ALL STATISTICS FROM U.S. BUREAU OF LABOR STATISTICS



