DEMO DAY

Session Demonstration Ideas

Pick one (or more), adapt it or use it as a template. The goal is for every student to participate, not just watch from the back.

Construction

- Blocks cut to different lengths with the measurement written in fraction form on each one. Students have to read the fractions and arrange the blocks in order from shortest to longest. Testing whether they can compare fraction sizes correctly
- Use a level and a stud finder on a practice wall section
- Take turns using a hand tool, a drill, a hammer, a caulking gun etc, on a low-risk practice material

HVAC

- Identify and correctly install an air filter into a mock unit or frame, students physically handle it and learn what "correctly seated" looks like
- Match different HVAC components, a thermostat, a filter, a coil or a blower motor, to their function using real or sample parts laid out on a table
- Walk through connecting or sealing ductwork using practice materials
- Use a pressure gauge on a mock refrigerant system to explain how pressure readings indicate a problem

Electrical

- Wire a simple switch or outlet on a mock panel
- Bend conduit using a hand bender
- Test a simple circuit with a multimeter
- Diagnose a deliberately faulty wiring connection and identify the issue

Healthcare

- Take blood pressure or pulse on each other using real equipment
- Practice a basic first aid skill, applying a bandage or a splint
- Listen to heart or lung sounds through a stethoscope
- Interpret a simple vitals printout or chart and discuss what it means

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Agriculture

- Identify and sort different seed, soil, or feed types
- Test soil pH or moisture using a simple tool
- Try a hand seeder or other simple piece of equipment
- Inspect and identify wear or damage on equipment parts, a worn belt, a dull blade or worn tire tread using real or sample parts

Automotive

- Use a torque wrench to properly tighten a bolt to spec
- Check fluid levels and identify what each fluid does using sample containers or a cutaway component
- Identify parts and their function: a spark plug, a belt, a filter, a sensor etc
- If space allows: a tire change or rotation using a jack and lug wrench, are strong hands-on options for employers with access to an outdoor space or a bay

Welding

- Use a welding simulator borrowed from a local CTE program or educational partner
- Handle real welding equipment, helmets, electrodes, clamps, while powered off
- Identify sound versus faulty welds using finished sample pieces

Manufacturing

- Use calipers or a micrometer to measure a part against a tolerance spec
- Set up an assembly line station where each student adds one piece to a product
- Sort parts by quality standard, good, defective or needs rework using real or sample pieces
- Show a finished product broken down into its individual manufactured parts

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Telecom/Lineman

- Try climbing gear or a bucket truck controls under close supervision, if safely available
- Practice splicing or connecting cable using practice materials
- Identify tools and their uses laid out on a table, pole climbers, hot sticks, testers
- Use a signal tester or meter to check a line and interpret the reading

IT

- Build a simple network connection using cables, a switch, and a router
- Troubleshoot a deliberately broken setup, a loose cable, wrong configuration and find the fix
- Try basic hardware work, opening a computer and identifying or swapping a component
- Write and run a few lines of simple code that does something visible, like changing text on a screen

Don’t see your field?

Use these ideas as a template for your own session:

- **What's a task a new employee learns in their first week?** Scale it down to something a student can try safely.
- **What's a tool or piece of equipment central to your work?** Let students hold, examine or operate it under supervision.
- **What's a decision you make regularly?** Turn it into a simple scenario students can work through.
- **What's something visual or tactile in your work?** Materials, before-and-afters or samples. Students engage more with something they can touch than something they can only hear about.