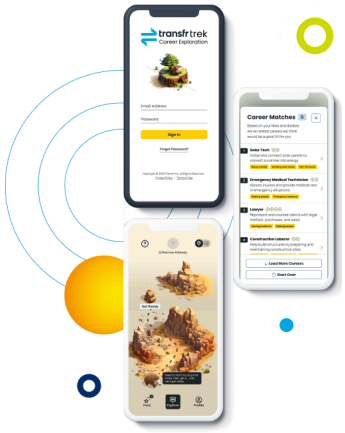
Transfr Trek



Transfr Trek is an immersive, multi-modal career exploration solution with interactive assessments, VR simulations, and easy career planning tools making career exploration more accessible and engaging for learners. It is built to prepare both youth and adult learners to navigate career details, adapt to the evolving job market, and get on a pathway to upward mobility.

Career Occupation Matching

In Transfr Trek's mobile experience, learners are matched to over 150 high-demand occupations across all 16 career clusters based on their interests and can review localized career data including outlook, salary, and skills needed. Regional programs and recommended courses give learners guidance into available pathways to plan their career journey. For the complete list of occupations in Trek, visit the Appendix.

Transfr Trek Career Simulations

All career exploration simulations last less than 10 minutes and are available with closed captioning and in Spanish.

Agriculture, Food & Natural Resources	
Career	**Simulation**
Diesel Farm Equipment Mechanic	**Repair Diesel Farm Equipment** Diagnose and fix a combine harvester diesel engine.
Food Scientist	**Test New Snack Packaging** Perform a series of tests on a new snack packaging material to determine if it's effective and ready for production.
Irrigation Specialist	**Repair a Farm's Irrigation System** Diagnose irrigation system performance issues and implement solutions to meet drought-related reduction goals on a farm.
Soil and Plant Scientist - New!	**Save a Farm's Wheat Crop** Collect and test leaf and soil samples to develop a plan to save a farm's wheat crop.
Veterinary Technician	**Care for a Dog with an Ear Infection** Assist with treating a dog with ticks and an ear infection.
Wastewater Treatment Plant Operator - New!	**Treat Wastewater For Public Use** Investigate an alarm in a wastewater treatment plant, diagnose an issue with sludge settling, and ensure water quality meets regulations for public use.

Architecture & Construction	
Career	**Simulation**
Architect	**Design a New Building for a School** Design, create blueprints, and oversee construction of a new career and technical education building on a high school campus.
Broadband Tower Construction	**Rebuild a Destroyed Communication Tower** Attach a new segment to rebuild a damaged communication tower.
Broadband Utility Construction	**Drill an Underground System** Use a horizontal directional drill to install underground conduit for fiber optic cable.
Broadband Fiber Installers and Repairer	**Repair Fiber Internet for a City Block** Repair a broken fiber optic cable to restore internet service.
Carpenter	**Rebuild a Historic Bakery Roof** Finish constructing and installing a roof truss assembly as part of a major repair to a historic building.

Construction Laborer	**Demolish an Overpass** Safely demolish an old overpass using power tools and explosives.
Distribution Line Worker	**Restore Power to a Neighborhood** Replace a transformer to fix a power outage in a neighborhood.
Elevator & Escalator Technician	**Repair a Hospital Elevator** Diagnose and repair a squealing noise coming from a hospital elevator by inspecting the counterweight and replacing a damaged roller.
Electricians	**Fix Power Outage at a Hospital** Replace a faulty relay to restore power to a hospital.
Heavy Equipment Operator -NEW!	**Operate an Excavator** Safely operate an excavator to move and process ore at a mining site.
HVAC Technician	**Repair a Rooftop HVAC Unit** Investigate, repair, and perform routine maintenance on a commercial rooftop HVAC unit.
Plumber	**Repair a Pool Filtering System** Repair a community pool's filtering system by identifying a leak, installing a new pump, and restoring water flow.
Plumber, Pipefitter, and Steamfitter	**Prepare a Pipe for a Commercial Building** Perform the required safety precautions and procedures for cutting a pipe and preparing ends for welding.
Solar Technician	**Install a Solar Panel on a Home** Install a solar panel and connect the wires in the breaker box.
Steelworker	**Build a Warehouse Structure** Build the core structure of an industrial warehouse to specification using steel columns and beams.
Transmission Line Worker	**Restore Power to an Entire Town** Change an insulator on a high voltage power line to restore electricity to a town.

Arts & Audio/Video Technology & Communication

Career	Simulation
Graphic Designer	**Redesign a Restaurant Brand Kit** Learn different graphic design concepts and apply them while using an image editing program to fix problems with a restaurant's brand kit.
Lighting Technician	**Fix a Light on a Film Set** Troubleshoot and fix a malfunctioning light before filming begins.

Finance

Career	Simulation
Claims Adjuster	**Settle an Insurance Claim** Gather evidence and estimate the cost of damages caused by a broken aquarium to settle a restaurant's insurance claim.
Financial Analyst	**Make an Investment Plan** Assess a foundation's investments and create a new plan to increase their earnings.

Government & Public Administration

Career	Simulation
City Planner	**Plan a New Urban Development** Plan the zoning, utilities, and public services of a new urban development according to a set budget.

Health Sciences

Diagnostic Services Pathways	
Career	**Simulation & Description**
Radiologic Technologist (RT) (⚠️Content warning: blood)	**Capture an X-Ray of a Leg Wound** Assist with preparing a patient and radiologic equipment for capturing x-ray images of a penetrating wound with a foreign object in place.
Clinical Laboratory Technologist	**Process a Sample in the Lab** Assist with a white blood cell viability test on a blood sample to help determine the best course of treatment for a patient undergoing chemotherapy.
Therapeutic Services Pathways	
Career	**Simulation & Description**
Emergency Medical Technician (EMT)	**Help at a Car Crash** Assist with cervical spine precautions and applying a splint at the scene of a car crash.
Medical Assistant (MA)	**Assist with an Electrocardiogram (EKG)** Assist with a 12-lead electrocardiogram by applying and removing electrocardiograph leads on a patient in a medical facility.
Pharmacy Technician (PhT)	**Prepare an Intravenous (IV) Infusion** Assist with preparing and sending an intravenous (IV) infusion for an emergency room patient.
Surgical Technologist (ST) (⚠️Content warning: blood)	**Assist with Knee Surgery** Pass instruments to the surgeon and use a bone saw during surgery in an operating room.
Registered Nurse (RN)	**Help an Emergency Patient** Obtain a blood pressure measurement and start an intravenous line and infusion on a patient in the emergency room.
Phlebotomist (⚠️Content warning: blood)	**Perform a Blood Draw** Comfort a nervous patient while collecting a blood sample with a needle and test tube.

Hospitality & Tourism

Career	Simulation
Chef	**Prepare and Plate a Signature Dish** Help prepare the ingredients for an abalone risotto dish and plate the entree at a Korean-themed, fine dining restaurant.
Restaurant Manager	**Improve the Dining Experience at a Restaurant** Listen to customer complaints and resolve problems related to food quality around the restaurant.
Hotel Front Desk Agent	**Provide Five-Star Hospitality** Use active listening and problem-solving skills to check in a guest at a hotel and help them choose an itinerary for the weekend.

Human Services

Career	Simulation
Cosmetologist	**Perform Facial Treatments** Perform a cryo facial and LED therapy on a client with acne to soothe her skin and boost her confidence.
Certified Nursing Assistant (CNA)	**Help Family Members Connect** Help a resident at a long-term care facility find their hearing aid and connect with their son.

Information Technology

Career	Simulation
Geographic Information Systems (GIS) Technician	**Process Agricultural Data for a Family Farm** Process agricultural data to create a map that will help farmers make informed decisions about their crops this year.

Network Technician	**Fix an App Service Outage** Make and install a CAT6e cable to fix an offline app.
Cybersecurity Analyst	**Stop a Cyberattack** Use security software to identify the threat, resolve a network vulnerability, and stop a cyberattack on a city's power grid.
Web Developer	**Build a Website for a Fashion Brand** Use a design system to develop the layout, visual style, and functionality of a website for a new shoe line.

Law, Public Safety, Corrections & Security

Career	Simulation
Emergency Medical Technician (EMT)	**Help at a Car Crash** Assist with cervical spine precautions and applying a splint at the scene of a car crash.
Firefighter	**Respond to a Fire** Respond to a fire alarm, assess the situation at the scene, and take action to contain and extinguish the fire.
Forensic Science Technician	**Collect Evidence from a Crime Scene** Document a crime scene and collect fingerprints, shoe prints, and biological evidence to help investigate a break-in and burglary.

Manufacturing

Career	Simulation
EV Battery Manufacturing Technician	**Assemble Components of an EV Battery** Assemble and test components of an electrical vehicle battery.
Industrial Maintenance Technician	**Repair an Industrial Cooker** Repair a broken industrial cooker to restart the production line in a food manufacturing plant.
Robotics Specialist	**Repair a Mobile Picker Bot** Repair a malfunctioning mobile picker robot so it can safely return to its automated tasks at a large fulfillment center.
Semiconductor Manufacturing Technician	**Find the Contaminated Microchips** Use a metrology tool to find which microchip is contaminated with particles.
Welders	**Fix a Broken Assembly Line** Weld a broken joint to repair a conveyor belt.
Installation Maintenance and Repair Worker	**Make Repairs at a Hotel** Replace a light bulb in a chandelier and repair an automatic door sensor at a hotel.
Quality Control Analyst	**Test a Prosthetic Leg** Perform quality control testing procedures on prosthetic legs to verify their safety and functionality.
Wind Turbine Technician - New!	**Perform Maintenance on a Wind Turbine** Climb to the top of a wind turbine to replace a hydraulic filter and an obstruction light.
CNC Machinist - New!	**Machine a Steel Pulley** Set up a CNC lathe, troubleshoot program conflicts, and machine a high-precision carbon steel pulley to exact automotive specifications.

Marketing

Career	Simulation
Market Research Analyst	**Conduct Research for a New Product** Perform research to help create a marketing strategy for a new brand of headphones.

Transportation, Distribution & Logistics

Career	Simulation
Air Traffic Controller - New!	**Manage Air Traffic During a Storm** Take command of the control tower to reroute aircraft, navigate a storm system, and guide an emergency landing to safety.
A&P Technician	**Service a Commercial Airplane** Inspect a jet engine fan and repair a damaged tire to make an airplane safe for flight.
Electric Vehicle Service Technician	**Replace an EV Battery** Replace the EV battery in an electric vehicle.
Automotive Services Technician	**Change the Oil in an Automobile** Change the oil and the oil filter in an automobile.
CDL Truck Driver	**Prepare for a Trucking Route** Explore the features of a semi-truck and prepare for the final leg of a delivery.

Science, Technology, Engineering & Mathematics

Career	Simulation
Biomedical Engineer	**Design a Smart Headband** Design and test a smart headband to track and monitor a patient's symptoms following a concussion.
Electrical Engineer	**Design an Electrical System for a Hospital** Design an electrical system for a hospital that contains backup power sources and failsafes.