

## Career Exploration

Career Exploration provides immersive learning opportunities to guide learners from the classroom to meaningful careers. Transfr empowers learners through a comprehensive career development platform to navigate new career paths, enhance job satisfaction, and adapt to the evolving job market.

# Career Exploration With Transfr

All Career Exploration simulations last between 4 and 6 minutes long and are available with closed captioning.

**NEW**

New Sim

**ESP**

Available in Spanish

## Agriculture, Food & Natural Resources

Career	Simulation	Description
<b>Diesel Farm Equipment Mechanic</b>	Repair Diesel Farm Equipment	The student will diagnose and fix a combine harvester diesel engine.
<b>Veterinary Technician</b>	Care for a Dog with an Ear Infection	The student will assist with treating a dog with ticks and an ear infection.

## Arts, Audio/Video Technology & Communications

Career	Simulation	Description
<b>Graphic Designer</b>	Redesign a Restaurant Brand Kit	The student will learn different graphic design concepts and apply them while using an image editing program to fix problems with a restaurant's brand kit.

## Architecture & Construction

Career	Simulation	Description
<b>Broadband Tower Construction</b>	Rebuild a Destroyed Communication Tower	The student will attach a new segment to rebuild a damaged communication tower.
<b>Broadband Utility Construction</b>	Drill an Underground System	The student will use a horizontal directional drill to install underground conduit for fiber optic cable.
<b>Broadband Fiber Installers and Repairer</b>	Repair Fiber Internet for a City Block	The student will repair a broken fiber optic cable to restore internet service.
<b>Carpenter</b>	Rebuild a Historic Bakery Roof	The student will finish constructing and installing a roof truss assembly as part of a major repair to a historic building.
<b>Construction Laborer</b>	Demolish an Overpass	The student will safely demolish an old overpass using power tools and explosives.
<b>Distribution Line Worker</b>	Restore Power to a Neighborhood	The student will replace a transformer to fix a power outage in a neighborhood.
<b>Electricians</b>	Fix Power Outage at a Hospital	The student will replace a faulty relay to restore power to a hospital.
<b>Plumber, Pipefitter, and Steamfitter</b>	Prepare a Pipe for a Commercial Building	The student will perform the required safety precautions and procedures for cutting a pipe and preparing ends for welding.
<b>Solar Technician</b>	Install a Solar Panel on a Home	The student will install a solar panel and connect the wires in the breaker box.
<b>Transmission Line Worker</b>	Restore Power to an Entire Town	The student will change an insulator on a high voltage power line to restore electricity to a town.

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## Finance

Career	Simulation	Description
<b>Financial Analyst</b>	Make an Investment Plan	The learner will assess a foundation's investments and create a new plan to increase their earnings.

## Hospitality and Tourism

Career	Simulation	Description
<b>Chef</b>	Prepare and Plate a Signature Dish	The student will help prepare the ingredients for an abalone risotto dish and plate the entree at a Korean-themed, fine dining restaurant.
<b>Restaurant Manager</b>	Improve the Dining Experience at a Restaurant	The student will listen to customer complaints and resolve problems related to food quality around the restaurant.

## Information Technology

Career	Simulation	Description
<b>Network Technician</b>	Fix an App Service Outage	The student will make and install a CAT6e cable to fix an offline app.

## Law, Public Safety, Corrections & Security

Career	Simulation	Description
<b>Emergency Medical Technician (EMT)</b>	Help at a Car Crash	The student will assist with cervical spine precautions and applying a splint at the scene of a car crash.

## Manufacturing

Career	Simulation	Description
<b>EV Battery Manufacturing Technician</b>	Assemble Components of an EV Battery	The student will assemble and test components of an electric vehicle battery.
<b>Industrial Maintenance Technician</b>	Repair an Industrial Cooker	The student will repair a broken industrial cooker to restart the production line in a food manufacturing plant.
<b>Robotics Specialist</b>	Repair a Mobile Picker Bot	The student will repair a malfunctioning mobile picker robot so it can safely return to its automated tasks at a large fulfillment center.

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## Manufacturing

Career	Simulation	Description
<b>Semiconductor Manufacturing Technician</b>	Find the Contaminated Microchips	The student will use a metrology tool to find which microchip is contaminated with particles.
<b>Welders</b>	Fix a Broken Assembly Line	The student will weld a broken joint to repair a conveyor belt.

## Transportation, Distribution & Logistics

Career	Simulation	Description
<b>A&amp;P Technician</b>	Service a Commercial Airplane	The student will inspect a jet engine fan and repair a damaged tire to make an airplane safe for flight.
<b>Electric Vehicle Service Technician</b>	Replace an EV Battery	The student will replace the EV battery in an electric vehicle.
<b>Automotive Services Technician</b>	Change the Oil in an Automobile	The student will change the oil and the oil filter in an automobile.
<b>CDL Truck Driver</b>	Prepare for a Trucking Route	The student will explore the features of a semi-truck and prepare for the final leg of a delivery.

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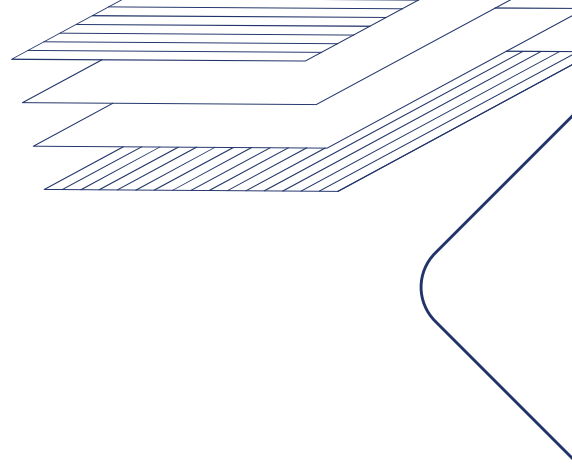
## Health Sciences

### Diagnostic Services Pathways

Career	Simulation	Description
<b>Radiologic Technologist (RT)</b>	Capture an X-Ray of a Leg Wound 	The student will assist with preparing a patient and radiologic equipment for capturing x-ray images of a penetrating wound with a foreign object in place.

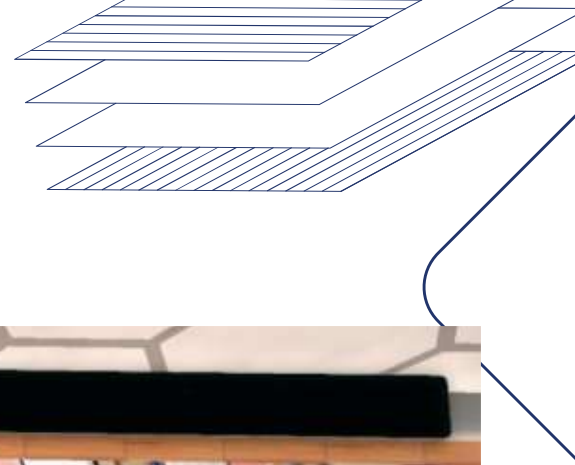
### Therapeutic Services Pathways

<b>Emergency Medical Technician (EMT)</b>	Help at a Car Crash	The student will assist with cervical spine precautions and applying a splint at the scene of a car crash.
<b>Medical Assistant (MA)</b>	Assist with an Electrocardiogram (EKG)	The student will assist with the application and removal of electrocardiograph leads during a 12-lead electrocardiogram on a patient in a medical facility.
<b>Pharmacy Technician (PhT)</b>	Prepare an Intravenous (IV) Infusion	The student will assist with preparing and sending an intravenous (IV) infusion for an emergency room patient.
<b>Registered Nurse (RN)</b>	Help an Emergency Patient	The student will obtain a blood pressure measurement and start an intravenous line and infusion on a patient in the emergency room.
<b>Surgical Technologist (ST)</b>	Assist with Knee Surgery 	The student will pass instruments to the surgeon and use a bone saw during surgery in an operating room.



# Career Training





## Virtual Healthcare Clinic

Transfr's Virtual Healthcare Clinic simulates the type of training that takes place in a healthcare facility. With one-to-one training from a virtual coach who adapts to learner performance, Transfr's simulations focus on developing a pipeline of healthcare professionals for jobs that are going unfilled, working with educators, employers, and workforce development departments while reducing cost and risk for employers.





Discipline

# Health Sciences

Transfr's Health Sciences modules give current and future healthcare personnel the skills to begin and progress on a career pathway. Learners build the foundational knowledge and skills required to provide safe, effective care that meets patients' needs and improves health outcomes for communities and populations.



## Module: Patient Care Foundations

### Safety Practices: Infection Prevention and Control

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#### Standard Precautions: Hand Hygiene

Participant will apply standard precautions to properly wash their hands and use alcohol-based hand sanitizer.  
Duration: 25 min

#### Standard Precautions: Donning and Doffing Gloves

Participant will apply best-practice techniques to safely don and doff gloves.  
Duration: 15 min

#### Standard Precautions: Donning and Doffing Gown, Mask, and Eye Protection

Participant will apply best-practice techniques to safely don and doff gowns, masks, and eye protection.  
Duration: 25 min

#### Transmission-Based Precautions: Contact

Participant will apply evidence-based practice techniques for contact-based isolation precautions.  
Duration: 20 min

#### Transmission-Based Precau- tions: Airborne and Droplet

Participant will apply evidence-based practice techniques for airborne and droplet based isolation precautions.  
Duration: 20 min

### Technical Skills: Data Collection

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#### Vital Signs: Respirations and Pain

Participant will investigate the presence of a patient's pain and potential interventions prior to measuring and documenting the patient's respiratory rate.  
Duration: 16 min

#### Vital Signs: Temperature

Participant will correctly measure and document patient temperature.  
Duration: 25 min

#### Vital Signs: Heart Rate

Participant will correctly measure and document a patient's heart rate.  
Duration: 20 min

#### Vital Signs: Blood Pressure

Participant will manually measure and chart brachial blood pressure.  
Duration: 20 min

#### Measuring and Recording Intake

Participant will accurately measure and record oral liquid intake.  
Duration: 15 min

#### Measuring and Recording Output

Participant will accurately measure and record urinary output.  
Duration: 30 min

#### Obtaining Height and Weight

Participant will obtain and record height and weight for an ambulatory and non-ambulatory patient.  
Duration: 35 min


### Technical Skills: Activities of Daily Living (ADLs)

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#### ADL: Assist with Feeding

Participant will prepare for and assist with feeding a patient, then record the oral food intake.  
Duration: 35 min

#### ADL: Assist Person with Female Genitalia During Bedpan, Perineal, and Urinary Catheter Care

Participant will use evidence-based techniques to assist a person with female genitalia during use of a bedpan for bowel elimination and perform subsequent perineal and indwelling (foley) urinary catheter care.  
Duration: 60 min 

#### ADL: Assist Person with Male Genitalia During Perineal and Urinary Catheter Care

Participant will use evidence-based techniques to perform perineal care and indwelling (foley) catheter care on a person with male genitalia.  
Duration: 50 min 

#### ADL: Provide Hair Care, Shave, and Give Back Rub

Participant will demonstrate best-practice techniques to provide hair care, shave a patient's face, and give a back rub.  
Duration: 40 min

#### ADL: Assist with Hand, Foot, and Nail Care

Participant will demonstrate evidence-based techniques for assisting patients with hand, foot, and nail care.  
Duration: 60 min


#### ADL: Assist with Mouth, Teeth, and Denture Care

Participant will demonstrate evidence-based techniques for assisting the patient with oral and denture care.  
Duration: 55 min

#### ADL: Assist with Dressing

Participant will demonstrate evidence-based techniques for assisting with dressing a patient.  
Duration: 25 min


#### ADL: Make an Occupied Bed

Participant will demonstrate evidence-based techniques for changing the linens on an occupied bed.  
Duration: 38 min 

#### ADL: Transfer from Bed to Wheelchair with Gait Belt

Participant will apply best-practice techniques for transferring a patient from bed to wheelchair while reducing risk for injury to self and to patient.  
Duration: 25 min

#### ADL: Position in Bed

Participant will demonstrate evidence-based practice techniques to assist a patient to reposition in bed and obtain a side-lying position.  
Duration: 35 min 

### **Reduce Risk for Venous Thromboembolism (VTE)**

Participant will demonstrate evidence-based techniques to reduce a patient's risk of developing venous thromboembolism (VTE).

**Duration: 35 min**

## **Technical Skills: Regulatory Requirements and Safety Practices**

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### **Oxygen Use and Safety Measures**

Participant will integrate evidence-based practice techniques to safely use and store oxygen.

**Duration: 22 min**

### **Applying and Removing Fabric Physical Patient Restraints**

Participant will demonstrate evidence-based techniques for safe application and removal of fabric physical restraints during patient care.

**Duration: 30 min**

**\*Simulation durations noted are estimated times for participants to complete a simulation.**

**Actual duration may vary as participants move through simulations at their own pace.**