



# Skid Steer Training

# What is JA Trades?

- Junior Achievement of Greater St. Louis offers a program called JA Trades, designed to introduce middle and high school students to careers in the trades. This hands-on program emphasizes the value of STEM skills and provides real-world experiences across a variety of trade professions.
- Students rotate through different stations to gain practical insight into careers such as welders, electricians, carpenters, and more.
- Volunteers play a vital role in the success of this program. We appreciate your support and hope your experience is both rewarding and memorable.

# Why teach Trades?

- High Demand: Skilled workers are needed more than ever as many retire.
- Career Path: Trades offer a solid, well-paying alternative to college.
- Hands-On Learning: Ideal for students who prefer practical, real-world skills.
- Strong Earnings: Many trade jobs offer great pay and benefits.
- Essential Roles: Trades are critical to keeping our communities running.



# Volunteer Role

- Students will rotate through several trade stations to gain first-hand experience with different skilled careers. Your role is to lead a simulation that teaches students how to operate a skid steer loader. You'll introduce the activity, guide them through the controls, and help them understand how this equipment is used on real job sites.



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# What is a Skid Steer Loader?

It's a mobile, four-wheel drive machinery that moves materials from one place to another usually using a bucket or forks in a variety of tasks.



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# Industries that use Skid Steer Loaders



- Landscaping
- Construction
- Farming
- Roadwork
- Forestry
- Demolition
- Warehousing



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# Certification Information

- The Skid Steer simulator is used to certify adults to operate heavy equipment.
  - **Certification = 140 + hours** on the simulator.
  - Hands-On Test: Demonstrates your ability to operate the skid steer correctly.
  - Written Test: Covers safety rules, best practices, and machine knowledge.



# Student Activities

Students will take turns practicing FOUR key tasks:

- Control Familiarization
- Positioning (Obstacle Course)
- Stockpiling 1: Using the bucket to move rocks
- Load Handling 1: Using the fork to move pallets

These hands-on simulations give students a feel for real equipment operation and basic material handling techniques.



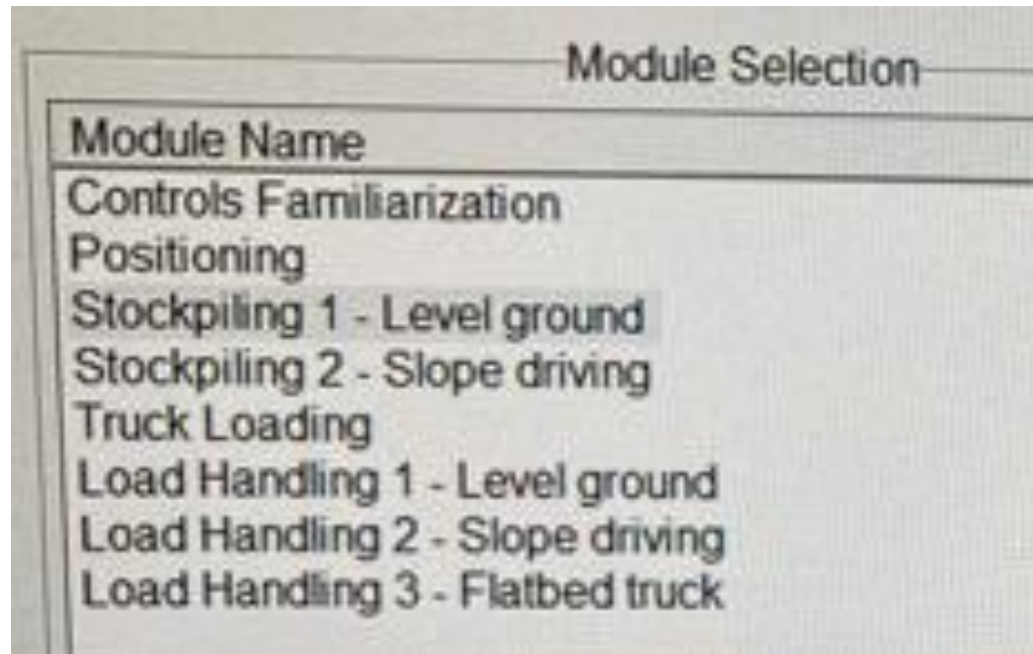
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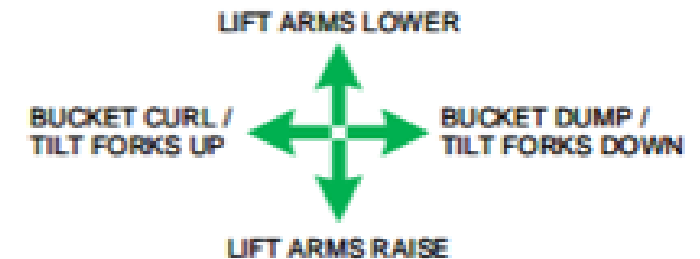
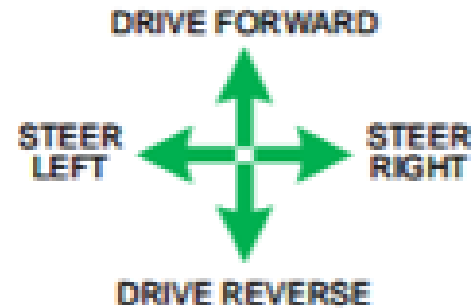


# Skid Steer Loader Simulation

## Module Selection



## Learning Controls



# What students should expect?

- Operating heavy machinery is hard—even adults take time to learn. Students are getting a hands-on introduction to operating a skid steer loader!
- They are trying something most people never get to do, so they can just take time and have fun.



# Simulation Activity Instructions

- Click orange lever to begin
- Notice **rearview mirror** at top of screen
- Follow **red arrows** (they turn green when passed)
- Go back if you don't see a red arrow in front of you
- Task ends at a **floating marker** on the left
- Exit with **X** and **X** out of front window

## 3. Stockpiling 1 - Scoop and dump rocks using a bucket.

- Double-click **Stockpiling 1**
- Locate **rock pile** and **dump zone** (has color border and floating marker)
- Beep horn to start
- **To load rocks:**
  1. Move forward
  2. Lower arms, tilt down until you see **gold line**
  3. Move forward, scoop rocks, tilt up → Raise arms
  4. Reverse → Move to dump area
  5. Dump rocks in the dump zone
- Repeat as needed
- Exit with **X**

## 4. Load Handling 1 - Pick up and place pallets using forks

- Double-click **Load Handling 1**
- View color-coded pallets and targets
- **To move pallet:**
  1. Beep horn

- You will receive a handout with detailed instructions upon your arrival to JA Trades. JA staff will check in to ensure you are comfortable with the task at hand and answer any questions you may have.



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**THANK YOU!**

**We look forward  
to seeing you at  
JA Trades!**

***Enjoy the Day!***



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