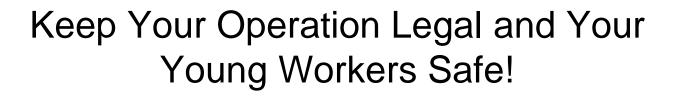
Employing Youth in Agriculture



anu entres.

Production Agricultur







Situation #1

Robert, a 55 year-old farmer in Indiana, has a 1,000 acre cash grain farm with corn and soybeans as the primary crops. At busy times of the year Cody, a 14-year old neighbor, assists Robert with various tasks/jobs on the farm.

On a hot April day, Robert instructs Cody to take the tractor and do some tillage work in preparation of planting corn.



Are there any issues with this?

Is it legal?

Situation #2

Tim, a 60 year-old farmer in Virginia, has a large cattle/calf operation. Additionally, he grows corn to feed the cattle and as a cash crop. At busy times of the year Sam, a 16-year old, assists Tim with various tasks/jobs on the farm.



Tim asks Sam to put a bale of hay for a cow with a newborn calf that is in a separate pen from the rest of the cattle.

Are there any issues with this?

Is it legal?

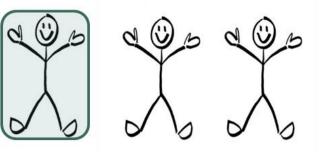
Why Have Regulations Been Implemented to Protect Youth Working in Agriculture?



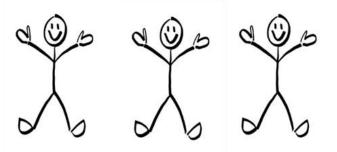


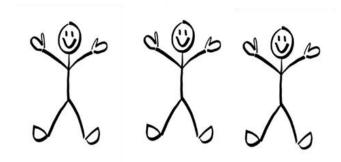
1 in 9 Farm Families are Affected by an Agricultural Injury or Fatality Each Year!

1 in 9 families











Youth Workers Face the Same Hazards as Adult Farm Workers





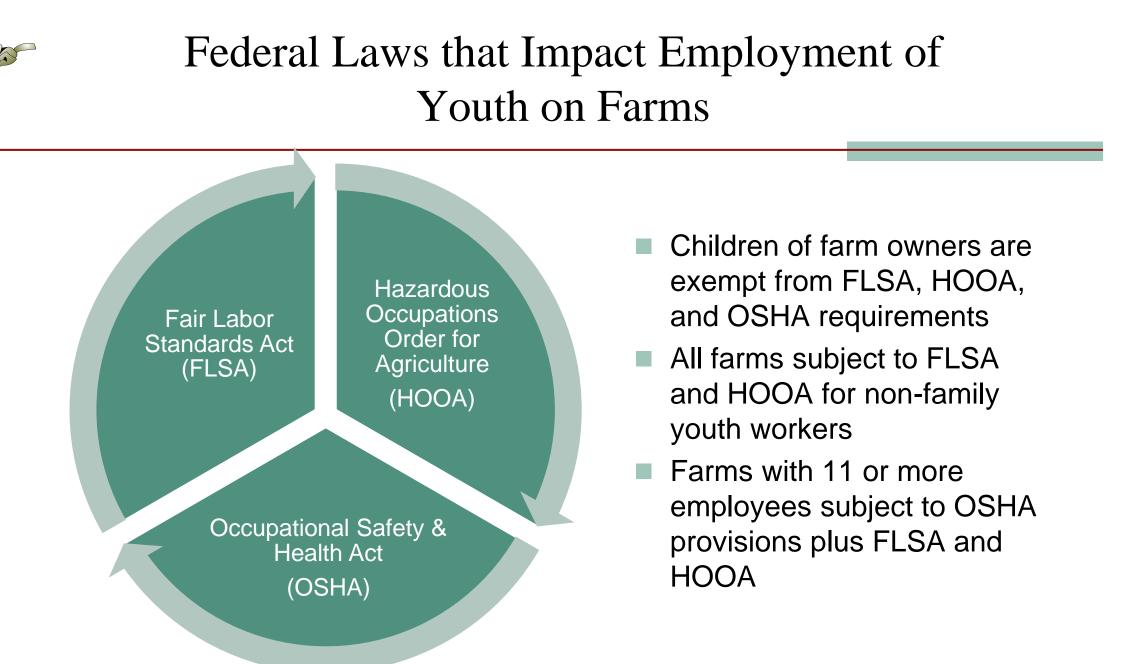
Why are Youth at Greater Risk of Injury During Farm/Ranch Work?

- Lack of knowledge about hazards
- Lack of coordination
- Lack of experience





- Physical size
- Lack of maturity
- Lack of strength
- Lack of endurance





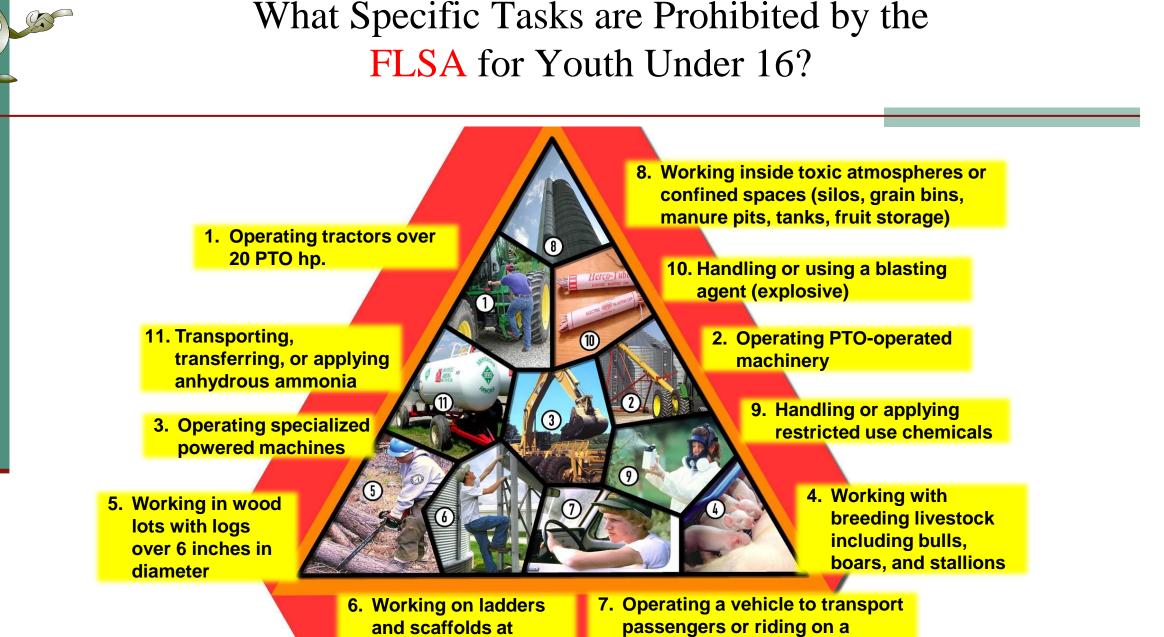
- Minimum wage
- Restricted hours
- Cannot interfere with school
- Prohibited from performing certain hazardous jobs

- Required supervision
- Prohibited exposure to toxic chemicals









tractor as a passenger

heights over 20 feet

All These Tasks have been Determined by the Secretary of Labor to be Hazardous for Youth under 16 to Perform for Hire on a Farm/Ranch

00



15-13

Case study

Local farmer cited for violation of Federal Hazardous Occupations Order

Gearing Up Daily News

Farmworkersville – A 13-year old boy was still in critical condition Tuesday night after he was caught in a piece of farm equipment and seriously injured.

Johnny Peters was airlifted to Memorial Hospital in Mechanicsville on Monday evening and remained in the intensive care unit until late Tuesday.

He was working by himself at the time, unloading corn from a gravity box wagon using a PTO-operated auger, on the Johnson farm at 234 Clover Road, town of Farmworkersville. His employer, Bob Johnson, had finished his chores and went to check on the teen. He found Johnny entangled in the PTO shaft of the auger. He switched off the tractor, pulled him from the tractor's power take-off shaft, and then called 911 at 5:51 p.m.

Johnny Peters' clothing had become entangled in the rotating shaft. All of this clothing except his underwear was wrapped around the still-turning shaft that provided the power to operate the auger.

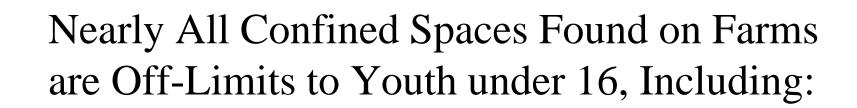
Across the state, three other children have been seriously hurt on farms in the past month- one of them killed, according to the State Extension Safety Specialist.

Youth under 16 are <u>Not</u> Permitted to Handle, Mix, or Apply Ag Pesticides

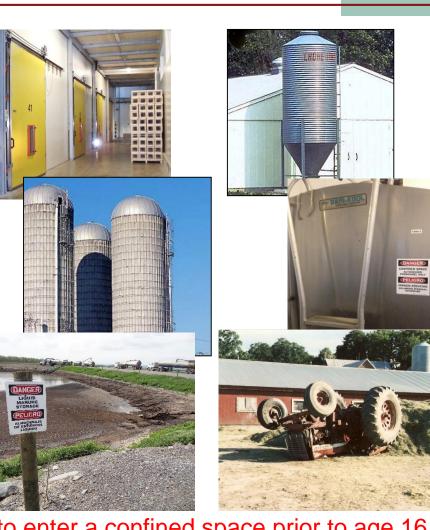
- Applies to all products with signal words "Warning" or "Danger"
- Also, youth may not:
 - clean application equipment
 - dispose of or return empty containers
 - serve as flagman for aircraft applying chemicals

NOTE: Many pesticides require applicator's license





- Fruit, forage and grain storage that limits oxygen or has a toxic atmosphere
- Upright silos within two weeks of filling
- Silos with unloader in operating position
- Manure pit
- Horizontal or bunk silo while operating a tractor to pack silage
- Bulk storage tanks (milk, feed)
- NOTE: There are no exemptions or training that will allow any youth to enter a confined space prior to age 16



15-16



Youth under 16 <u>Cannot</u> be Hired to Work at Heights over 20 Feet

- Areas of concern include:
 - Tall structures (bins, silos, center legs)
 - Tall equipment (bucket lifts, combines)
 - Ladders (painting, trimming trees, harvesting fruit)
 - Bunk silos
 - Hay mows and hay holes

NOTE: Slips and falls are the #1 cause of non-fatal injuries in Agriculture





- For hire, youth under 16 may not:
 - Ride on a tractor as passenger or helper
 - Operate a pickup or semi-truck



Which Animals May a Youth under 16 <u>NOT</u> be Employed to Work with?



Sows with baby pigs

Bull, boar or stud horse kept for breeding purposes



Cow with newborn calf



Youth under 16 Cannot be Hired to Work around Timber with a Butt Diameter over 6 Inches

- Operating chainsaw
- Felling
- Bucking
- Skidding
- Loading
- Unloading



NOTE: None of the tasks listed are allowable for youth to perform even with an HOOA Certificate of Training

Especially Hazardous Tasks 14 and 15 Year Olds may Perform for Hire on a Farm/Ranch, if Trained



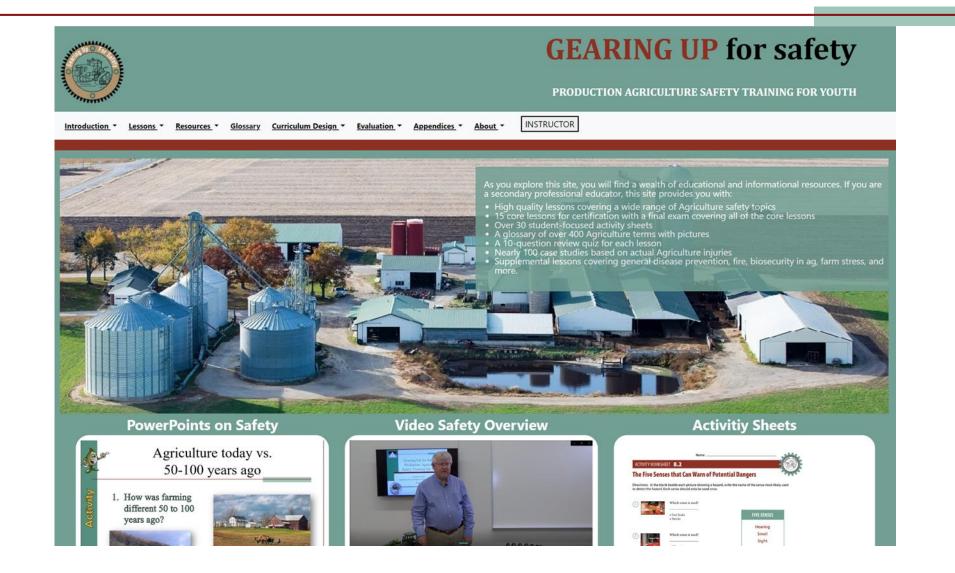
Operating or assisting to operate certain machines including combine, forage harvester, hay baler, feed grinder, forage blower, auger, selfunloading wagon, powered post hole digger

Operating a tractor over 20 PTO horsepower



NOTE: The training exemption only applies to these tasks. The other specified "especially hazardous" tasks are prohibited for youth under 16, even if trained.

Gearing Up for Safety Program





Gearing Up for Safety: Production Agriculture Safety Training for Youth

- Curriculum meets current training regulations prescribed by HOOA
- Instructor resources and program administration materials
- 16 core lessons for certification
 - Full video instruction provided
- Additional supplemental lessons being added regularly
- All lessons include:
 - PowerPoint presentations with instructor notes
 - Student activity sheets and quizzes
 - Glossary of agriculture terms
 - Case studies

This curriculum is ideal for all young and beginning farm workers, not just those seeking certification!¹⁵⁻²³





- Training must be administered by:
 - Cooperative extension educator (or)
 - Agricultural science teacher
 - Volunteers or others may assist as instructors, but cannot certify training completion
- Applies only to 14 and 15 year-olds
- Basic requirements:
 - 4-H member or enrolled in agricultural science program
 - Minimum training hour requirements
 - Hands-on tractor operation evaluation



Complying with Youth Labor Laws vs. Teaching Kids to Work Safely

- Many youth workers exempt from legal requirements
- Most regulations affect under 16
- 16-20+ year olds also at risk
- Even if not required by law, training young workers (including your own kids) is important
 - Builds good safety habits and culture
 - Less likelihood of injury = reduced liability
 - More productive workers
 - The "right thing to do"

Examples of Powerpoint components

••

Features That Reduce Potential of Tractor Upset

Wide front end

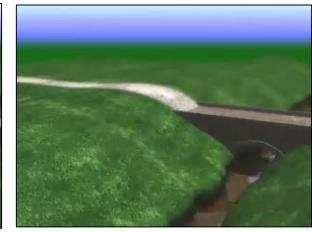
- Adjustable rear wheel width
- Rear wheel weights
- Duals or wider tires







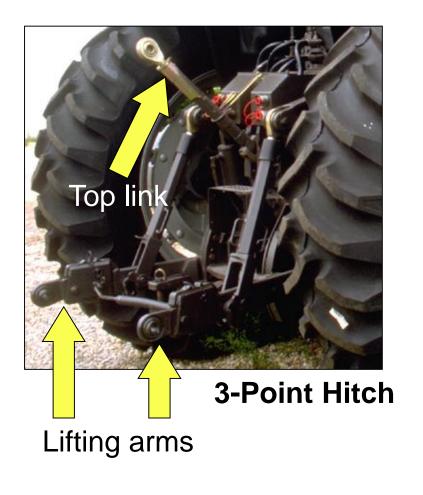


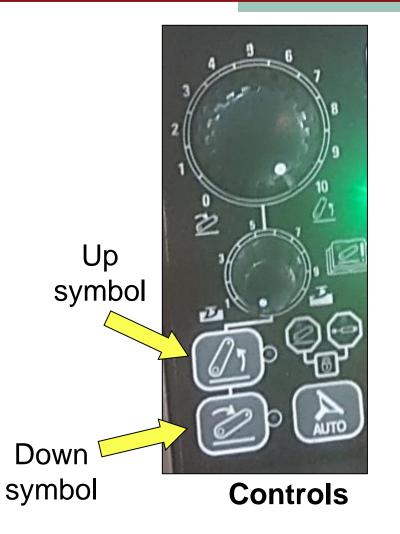


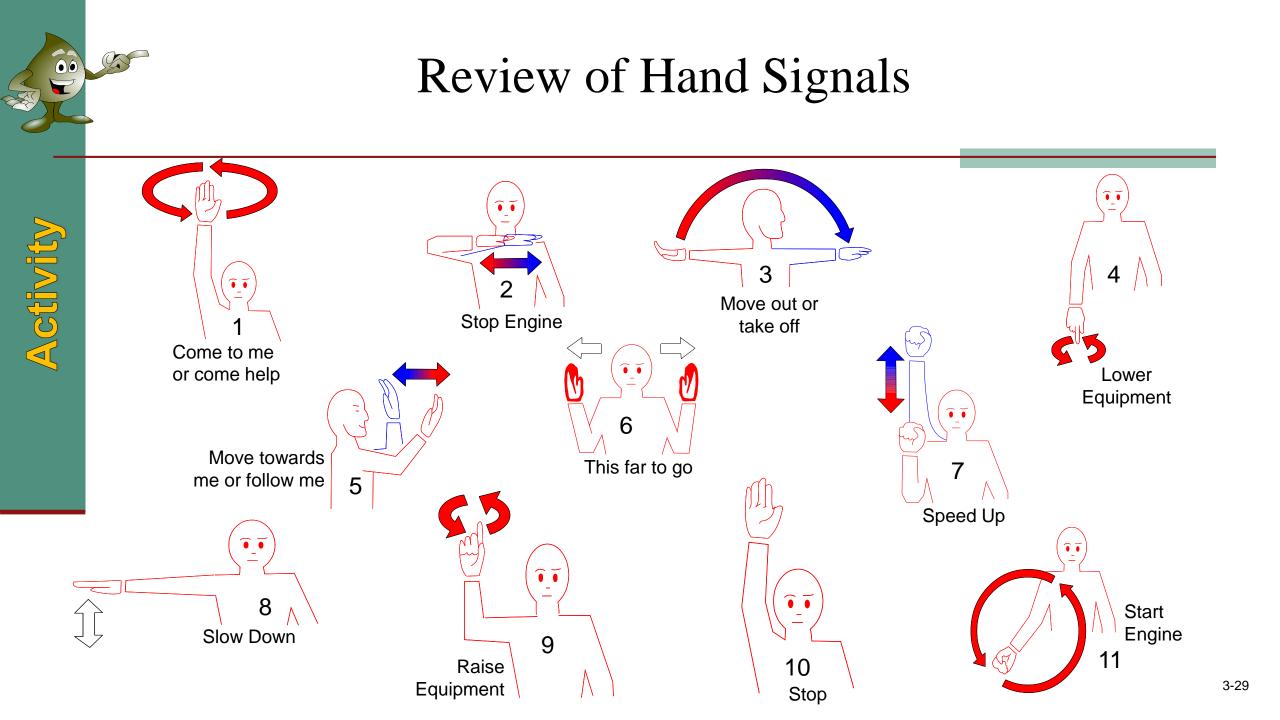
Animation – Tractor without duals Click to play

Animation – Tractor with duals Click to play

Raising and Lowering the Three-Point Hitch Assembly











Hands-on Activities and Demonstrations



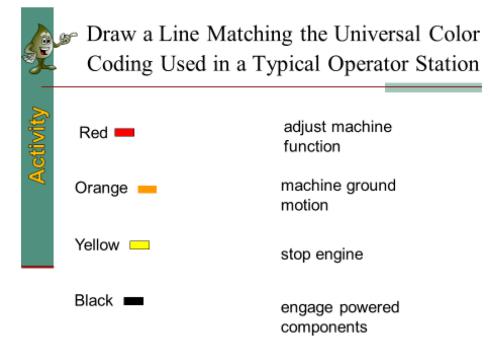


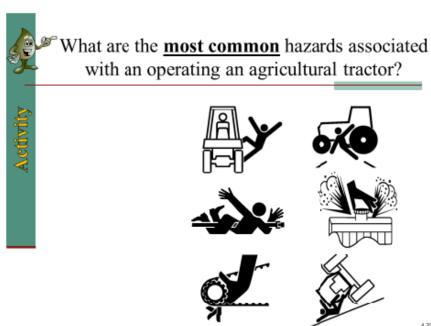






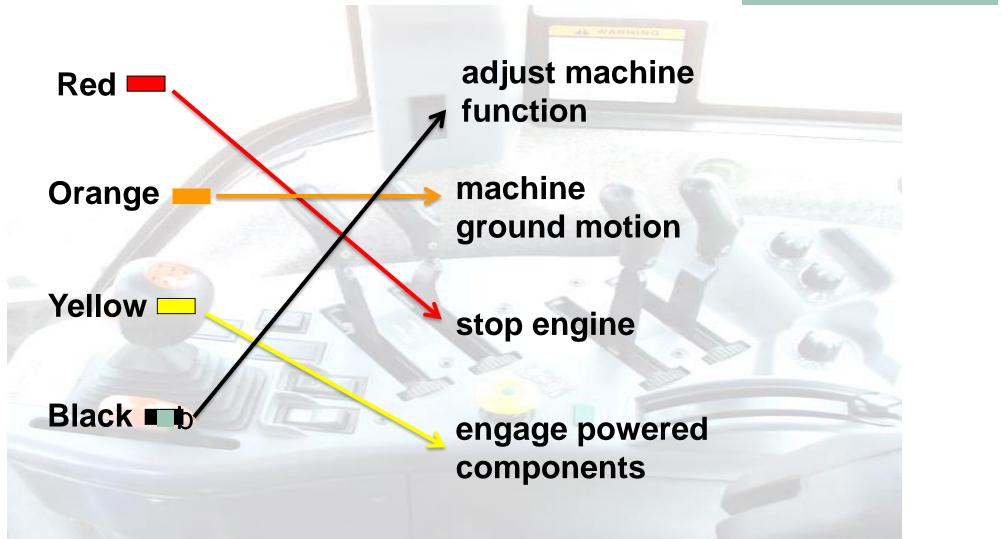
Paper Activities and Worksheets





4-32

Draw a Line Matching the Universal Color Coding Used in a Typical Operator Station



Activity

2-36

Farm Safety Inventory



No hazard assessment tool can be all-inclusive due to

the wide diversity of enterprises that can be found in

agricultural production, and each individual producer's

experience, skills, and work practices. If there is uncertainty concerning a specific hazard or practice, it would be appropriate to contact the insurance carrier, county Extension Educator, professional engineer or on-line sources for technical assistance. Teel free to add additional inventory items that address unique hazards identified during the assessment.

An assessment of this type should not be a one-time occurrence, but should be repeated at least annually along with a record of the corrective actions needed and taken. A copy should be filed with the operations other safety resources and could be beneficial in documenting efforts taken to enhance the safety and health of the workplace.

Farmer's/Rancher's/Grower's Name:	Date Inventory was Completed:
Address:	Person(s) Completing Inventory:
	retion(s) compreting intercory.

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ety-related ment, first-aid ty policies are kers.		
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f 16 are trained and leral Hazardous HOOA).		
ovided an ed instruction ionitored during		
ply with safe ties are clearly		
d use of personal :d equipment is		
g facilities are		
g proper vent disease idling standards.		
f their rights er the provisions		
poster is displayed if the farm falls		

	ок	Corrective Actions Needed
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sed to operate ks.		
e raised position in low clearance		
in, grain storage cility without a		
ver operated inside ion.		
owed to work with ooars, or animals		
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M/BANCH SAFETY

2 FARM/RANCH SAFETY INVENTORY

For more information about Gearing Up:

www.GearingUp.info

Tractor and Machinery Safety

- FREE download of all lessons and program resources
- For more details about Gearing Up or questions about youth employment in agriculture contact: *Roger Tormoehlen*
 - Purdue Agricultural & Biological Engineering 765-494-8424

agsafety4youth@lists.purdue.edu





Welcome to the Gearing Up for Safety: Production Agriculture Training for Youth educational website! We are delighted you are here. As you explore this site, you will find a wealth of educational and informational resources. If you are a secondary professional educator, this site provides you with:

- 15 high quality PowerPoint presentations covering a wide range of Agriculture safety topics
- Over 30 student-focused activity sheets
- A glossary of over 400 Agriculture terms with pictures
- A 10-question review guiz for each of the 15 PowerPoint lessons
- Nasely 100 eace studies based on actual Assisulture injusies



Current List of Gearing Up Lessons

CORE Certification Lessons

- 1. General Farm and Ranch Safety Overview
- 2. Tractor Components Basics
- 3. Tractor Pre-Operational Procedures
- 4. Tractor Operation Basics
- 5. Tractor-Powered Implements
- 6. Self-Propelled Agriculture Equipment
- 7. Operating Agriculture Equipment on Public Roads
- 8. Repairing Agriculture Equipment
- 9. ATV & Utility Vehicle Safety Operation
- 10. Skid Steer Loader, Telehandler and Forklift Operation
- 11. Confined Spaces in Agriculture
- 12. Grain Storage and Handling Facilities
- 13. Working with Animals
- 14. First-Aid & Emergency Response
- 15. General Farm and Ranch Hazards
- 16. Hands-On Tractor Operation

Supplemental Lessons

- S1. General Disease Prevention for Young Agriculture Workers
- S2. Preventing Fire and Burn Injuries on Farms and Ranches
- S3. Biosecurity in Agriculture Operations
- S4. Farm Youth Stress Management

Currently in development

- Green Industry (3 lessons)
- Agricultural Waste Management
- Trailer operation and safety



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