



Program Topics and Learning Objectives

The Gear Up for Ag Health and Safety™ program is customized based on local and regional agricultural exposures, and results from a standardized international pre-survey. Pre-survey results also provide a unique insight about student attitudes, knowledge, and safety behaviors prior to the delivery of the program. Sharing real data with students gives us the opportunity to have a dialogue about current health and safety issues with students. This program includes access to the **Gear Up for Ag eLearning** platform which includes program topic content and resources. Distribution of a **Gear Up for Ag™ PPE Kit** to each student and instructor is a valuable part of the program.

Topics and learning objectives vary depending on the length of the program, survey results and relative agricultural exposures. Additional topics are added based on the needs of the students and college.

Examples of program topics and learning objectives for each topic include:

Topics	Learning Objectives
Agricultural exposures and hazards	<ul style="list-style-type: none"> - Discuss agricultural health and safety exposures and hazards - Identify ag health and safety hazards based on regional customization - Use personal stories as a method of increasing awareness
Prevention Strategies	<ul style="list-style-type: none"> - Define hierarchy of controls commonly used by health and safety managers - Identify different examples of engineering controls - Discuss where PPE fits into the hierarchy of controls
Pre- survey results	<ul style="list-style-type: none"> - Summarize group pre- survey data related to agricultural exposures
Prevention strategies	<ul style="list-style-type: none"> - Define types of prevention strategies - Share educational resources
Machinery safety	<ul style="list-style-type: none"> - Review national and regional machinery statistics - Pre-work inspection check list - Use of Roll Over Protection Structures (ROPS) and seatbelt use with ROPS - Review student data related to machinery/equipment use and tasks - Identify appropriate use of PPE when working with machinery - General machinery safety based on equipment students are working with - Road-way safety (regarding machinery on roadways)
ATV safety	<ul style="list-style-type: none"> - Review national and regional ATV statistics - Review group data (helmet use, extra riders, rolling ATVs) - Discuss prevention strategies to prevent injuries and fatalities - Discuss crush protection devices and other engineering design features - Review ATV safety checklist
Respiratory health and protection (specific exposures vary by region)	<ul style="list-style-type: none"> - Define respiratory exposures in agriculture - Discuss respiratory symptoms related to agricultural exposures - Discuss respiratory illness and disease related to exposures - Review participant survey data - Use hands-on methods to demonstrate types of respirators (disposable, reusable cartridge, full facepiece, PAPRs) - Review use of SCBAs in specific Ag settings - Identify appropriate respiratory protection for specific exposures - Review respiratory worksheet for students to use as resource - Distribute disposable and reusable respirators - Discuss and demonstrate fit check and fit testing

Topics	Learning Objectives
Eye safety	<ul style="list-style-type: none"> - understand importance of right size and shape of safety glasses - identify NIOSH standard related to safety glasses - demonstration and distribution of safety glasses
Hearing protection	<ul style="list-style-type: none"> - understand anatomy of the ear - identify ag and non-ag related exposures that have the potential to cause hearing damage. - discuss impact of hearing loss on quality of life - discuss preventive strategies to reduce exposure to noise. - identify appropriate selection of hearing protection - demonstration and distribution of hearing protection - discuss and demonstrate sound meter app
Pesticide exposures	<ul style="list-style-type: none"> - identify routes of pesticide exposures - understand pesticide label and where to review recommended PPE - discuss importance of appropriate size of chemical resistant gloves - review donning and doffing of PPE - demonstration and distribution of chemical resistant gloves and coveralls
Livestock handling	<ul style="list-style-type: none"> - identify risks related to large animal handling - discuss animal behaviors - identify risks related to misuse of equipment - discuss needle stick injuries and prevention
Zoonosis	<ul style="list-style-type: none"> - discuss zoonotic disease definition - identify various modes of transmission of zoonotic diseases - review common zoonotic diseases - discuss measures to prevent the spread of zoonotic disease - discuss animal health, good hygiene and appropriate use of PPE
Heat Illness/Sun Safety	<ul style="list-style-type: none"> - discuss sun safety in agriculture, work and play - identify prevention methods to prevent skin cancer (sunscreen, sun safe clothing, sun safe hats) - Heat Illness Motion graphic - identify prevention methods to prevent heat related illnesses - discuss heat index app
Stress and Mental Health in Agriculture	<ul style="list-style-type: none"> - mental health in Ag motion graphic with discussion - identify stress and mental health issues in agriculture - identify signs and symptoms related to mental health - identify local, regional and national mental health resources
PPE appropriate use and selection	<ul style="list-style-type: none"> - identify appropriate PPE use based on exposures - understand proper fit for PPE identify where to purchase PPE - interactive demonstration and fitting of PPE for each student
Health and safety plans	<ul style="list-style-type: none"> - identify how health and safety plans assist in prevention strategies - review health and safety plan resources
Gear Up for Ag eLearning	<ul style="list-style-type: none"> - review Gear Up for Ag eLearning platform - assist students with login - assist class instructors with eLearning instructor site
Resources	<ul style="list-style-type: none"> - identify resources related to ag health and safety - distribution of student handouts and resources - review Gear Up for Ag health and Safety online resources

For more information: visit www.aghealthandsafety.com Gear Up for Ag [Program Page](#)