



Program Topics and Learning Objectives

The Gear Up for Ag Health and Safety™ program is customized based on local, regional and agricultural exposures and current health and safety evidenced based information. Results from a standardized international pre-survey administered prior to the program presentation assists with the development of each program. These 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 also includes the distribution of a free *Gear Up for Ag™* PPE Kit to each student and instructor. [View](#) a list of the personal protective equipment (PPE) on our website program page.

Topics and learning objectives vary depending on the length of the program, survey results and relative agricultural exposures. 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, using a respiratory worksheet - 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 - 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 loss - Discuss impact of hearing loss on quality of life - Discuss preventive strategies to reduce noise exposure - Identify appropriate selection of hearing protection - Distribute hearing protection and demonstrate proper usage - Discuss and demonstrate sound meter apps
Pesticide exposures	<ul style="list-style-type: none"> - Identify routes of pesticide exposures - Understand pesticide labels and where to find recommended PPE - Discuss importance of skin protection - Discuss importance of appropriate size of chemical resistant gloves - Review donning and doffing of PPE, including chemical resistance gloves and coveralls - Distribute 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 and identify various modes of transmission - Review common zoonotic diseases in agriculture - Discuss measures to prevent the spread of zoonotic disease - Discuss animal health, good hygiene, and skin and respiratory protection through the use appropriate use of PPE - Identify resources
Heat Illness/Sun Safety	<ul style="list-style-type: none"> - Discuss sun safety in agriculture (work and play) - Identify skin/dermal protection 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 common stress and mental health issues in agriculture - Identify signs and symptoms related to mental health - Discuss potential stigma of mental health related-issues in the ag community - 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
Resources	<ul style="list-style-type: none"> - Identify general evidence-based resources related to ag health and safety - Distribution of resources - Review Gear Up for Ag health and Safety online resources

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