

 Introduction


Fatality rate twice as high as other construction workers and eight times higher than the average worker

Source: CFOI - Census of Fatal Occupational Injuries



 Introduction


- Annually on highway-related projects:
 - More than 100 fatalities
 - 20,000 injuries
 - Fatality rate twice as high as other construction workers
 - Workers and motorists at risk



 Introduction

Webinar Learning Objectives

- Understand the key exposures that kill and maim 90% of all highway workers
- Understand the best controls to eliminate and minimize these exposures
- Understand the "Focus Four + One" concept and hierarchy of safety controls
- Be able to navigate and effectively use the multiple parts of this safety program to train subcontractors, management, and employees
- Feel empowered to effectively train supervisors or employees performing grading, utility, bridge, asphalt, concrete, traffic control and demolition operations to plan safe operations while working on or adjacent to highways in the United States.



AGC of America
THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA
Quality People. Quality Projects.




Highway Worker Safety Program

History



- AGC Safety Committee & Zurich
- AGC Highway Division – Comprehensive Highway Safety Product

Participation

- Over 100 highway contractor safety professionals and companies




AGC of America
THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA
Quality People. Quality Projects.



Highway Worker Safety Program

The Highway Worker Safety Program is a comprehensive training program that focuses on the leading causes of fatality and injury for highway workers.

The HWSP program is set up so that it can be used by both the large general contractor and the small sub or specialty contractor working on your project. Great training program for all types of contractors including subs working on your highway project.




AGC of America
THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA
Quality People. Quality Projects.


What does the Highway Worker Safety Program include?

- DVD with interactive Video Components
- DVD ROM with
- Editable PowerPoint Program - 298 slides
- Instructor Guide – 120 pages
- Participant's Manual - 80+ pages
- Resource page with links to other web pages



HWSP Key issues that affect all

- Planning & Communication
- Traffic Control
- Visibility
- Night Work
- Environmental Hazards



HWSP Key issues that affect all

Planning & Communication

- Pre-Planning – estimation phase
- Project specific orientation
- Daily crew meetings that address hazards specific to that day's tasks
- Pre-task meetings that address hazards associated with specific tasks
- 2 second look ahead
- Unified Incident Plan or Emergency Action Plan



HWSP Key issues that affect all

Traffic Control


- DOT Standard plans review and planned movements
- Setting up traffic control – personnel part of barrier until set up complete
- Maintenance of Traffic (MOT) – Flagging
- Taking down traffic control – Soft tissue injuries
- Internal and External Traffic Control Plans




HWSP Key issues that affect all

Visibility

- "See and Be Seen"
- Class I, II, III retro-reflective clothing
- Set up of light plants and non-glare lighting
- WOFs- Workers on Foot
- Each year approximately 2500 visibility related injuries



HWSP Key issues that affect all

Night Work


- Supervision of workforce & Planning
- 6-8% of workforce ≈ 25% of all highway injuries happen between 6:00 PM and 6:00 AM.
- Higher incidence of intoxicated or sleepy drivers
- Worker & Supervisor Fatigue
- Visibility of equipment – retro - reflective tape



HWSP Key issues that affect all


Environmental Hazards

- Extreme Cold and Heat – soft tissue injuries
- Hydration
- Windblown and job related dust
- Slips, Trips, and Falls – Muddy, wet, icy conditions
- Layering of clothing
- Worker rotation



HWSP Navigation of the DVD

- The navigation of the DVD is totally interactive and the next few slides show the navigation.



HWSP Highway Worker Safety Program



HWSP Highway Worker Safety Program










HWSP Navigation

- Next is the navigation shown as the menu's on the DVD's



AGC of America THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA Quality People. Quality Projects. ZURICH

Highway Worker Safety Program

- ▶ Play Video
- ▶ Interactive Program
- ▶ Credits

HWSP



AGC of America THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA Quality People. Quality Projects. ZURICH


Interactive program

- ▶ Introduction
- ▶ Individual Topics
- ▶ Main Menu

HWSP Highway Worker Safety Program Introduction

Key Issues

MAIN ◀ ▶




HWSP Highway Worker Safety Program Introduction

Key issues that affect all


- **Planning & Communication**
- **Traffic Control**
- **Visibility**
- **Night Work**
- **Environmental Hazards**

MAIN ◀ ▶



HWSP Navigation of the DVD

Insert introduction video here.




HWSP Introduction
Focus Four Plus One

Highway Worker Safety Program


"Focus Four Plus One"

- Struck-by hazards
- Fall hazards
- Caught-In-Between hazards
- Electrical hazards
- Soft tissue injuries
- Common exposures



HWSP Introduction
Hierarchy of Controls


- Best-practice controls – the Hierarchy of Control
- Each section will discuss appropriate controls, ranked in order of effectiveness.
- Engineering controls – remove or eliminate
- Administrative controls – train or prohibit access
- Personal Protective Equipment – the least effective, and only after the above are employed




HWSP Introduction
Task-specific sections

- Task-specific Hazards and Controls
 - Traffic control
 - Asphalt paving & patching operations
 - Bridge construction work
 - Concrete paving & patching operations
 - Demolition operations
 - Utility & drainage operations
 - Grading & earthmoving operations
 - Short-term & mobile operations



 Navigation

- Next is the navigation shown as the menu's on the DVD's





AGC of America  ZURICH 

Quality People. Quality Projects.

Highway Worker Safety Program

- ▶ *Play Video*
- ▶ *Interactive Program*
- ▶ *Credits*





AGC of America  ZURICH 

Quality People. Quality Projects.

Interactive program

- ▶ *Introduction*
- ▶ *Individual Topics*
- ▶ *Main Menu*


AGC of America
THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA
Quality People. Quality Projects.

Individual Topics

- ▶ Traffic Control
- ▶ Asphalt Paving & Patching Operations
- ▶ Bridge Construction Work
- ▶ Concrete Paving & Paving Operations
- ▶ Demolition Operations
- ▶ Grading & Earthmoving Operations
- ▶ Short-term & Mobile Operations
- ▶ Utility & Drainage Operations


MAIN



Highway Worker Safety Program
Bridge Work

Bridge Work

MAIN ◀ ▶






Highway Worker Safety Program
Bridge Work

**Bridge Work
Common Issues**

- Falls from heights
- Traffic exposure
- Sequencing can create confusion





MAIN ◀ ▶



Navigation of the DVD

Insert bridge video here.






Introduction
Other Training Issues

- This program is not designed to address more specific or comprehensive training needs, such as (but not limited to):
 - Scaffolding
 - Fall protection
 - Ladders
 - Cranes & rigging
 - Fire prevention
 - Confined space
 - Aerial work platforms
 - Forklifts
 - Hand & power tools





Worker Safety Program

The Highway Worker Safety program is intended to increase awareness of certain factors that may contribute to highway worker injuries and fatalities among construction and worker and to suggest practices that may reduce the risk of such injuries. This program is not intended to provide specific guidance to any one construction company or to any one contractor or to provide specific guidance to any one construction company or to any one contractor or to provide specific guidance to any one construction company or to any one contractor. This program does not address the entire range of activities or conditions found in the construction industry, or suggest that other approaches to the risk of highway worker injury do not merit equal consideration. The information that this program conveys is necessarily general in nature.

While certain practices appear to be desirable, none can guarantee that highway worker injuries will not occur. This program does not create any obligations, or establish any specific standards or guidelines, for managing the risk of such injuries. It is not an exhaustive or complete treatment of its subject matter.

In making this program available, neither Zurich Services Corporation (hereinafter "Zurich") nor the Associated General Contractors of America, Inc. (hereinafter "AGC"), undertakes to perform services for or on behalf of any party, whether for that party's own protection or for the protection of others. Neither Zurich nor AGC accepts any liability, or makes any warranty, whether express or implied, or assumes any liability whatsoever for reliance on this program or its contents.

This Highway Worker Safety program does not specify any course of conduct or set of practices required by law or regulation, or convey legal, medical or other professional advice.

