



Understanding the
Impact of Deploying
ABC's STEP Safety
Management System
on Overall Safety
Performance

ABC 2019 SAFETY PERFORMANCE REPORT



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UNDERSTANDING THE IMPACT OF DEPLOYING ABC'S STEP SAFETY MANAGEMENT SYSTEM ON OVERALL SAFETY PERFORMANCE

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Tate & Tryon, CPAs, performed the following agreed-upon procedure to review the data published in the ABC 2019 Safety Performance Report: Using the 2018 STEP self-assessment data, Tate & Tryon recalculated the formulas used to generate the results and compared the results to the data in the ABC 2019 Safety Performance Report. No formula errors were noted.

You Can Achieve World-class Safety. Start Today.

Executing on your commitment to world-class safety takes fortitude and effort, as it is fraught with leadership challenges. During this journey, leaders eventually ask themselves and their employees questions such as:


- Do we truly believe that all incidents are preventable?
- Are we unwilling to compromise someone's safety for profit, productivity, schedule or any other priority?

ABC provides the industry with three tools that help create the conditions for everyone to complete their work without incident and go home safe and healthy every day.


1 ABC's STEP is a world-class safety management system improved annually by the ABC National Safety and Health Committee.

2 The annual ABC Safety Performance Report analyzes the cause-and-effect relationship between best-in-class processes and incident prevention.


3 ABC's Safety Academy helps construction companies lay out a multi-year plan to achieve industry-leading safety results.



Michael D. Bellaman
President and CEO



Greg Sizemore
Vice President, HSE and
Workforce Development



Stephen M. Wiltshire
Director of Safety

If we choose to lead, if we choose to commit, and if we choose to transform, together we will create the conditions for all to do their work without incident and go home safe and healthy every day.

These tools provide leaders with a roadmap to win and deliver their work without incident:

Leadership commitment to an organization that creates the conditions for all to do their work without incident.

Cultural transformation into a company where every employee believes all incidents are preventable.

Deployment of a **world-class safety management system** throughout the organization with the desire to achieve industry-leading results.

World-class results delivered using leading and trailing indicators to share successes and lessons learned with all employees.

I am confident the 2019 ABC Safety Performance Report will help you on your journey. Please feel free to share the report widely with your teammates, subcontractors, clients and competitors.

If we choose to lead, if we choose to commit, and if we choose to transform, together we will create the conditions for all to do their work without incident and go home safe and healthy every day.



Michael D. Bellaman
President and CEO
Associated Builders and Contractors

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Introduction

Every company that works in nonresidential construction wants to send its workers home in the same condition in which they arrived—if not even better—after an active day of work that stimulates the mind and body.

Until now, relatively few studies have been conducted on the correlation between the use of measures companies can take to keep workers safe on jobsites—leading indicators—and the number of incidents, accidents and injuries that occur—trailing indicators. The empirical evidence did not exist.

Associated Builders and Contractors created the Safety Performance Report to address this issue.

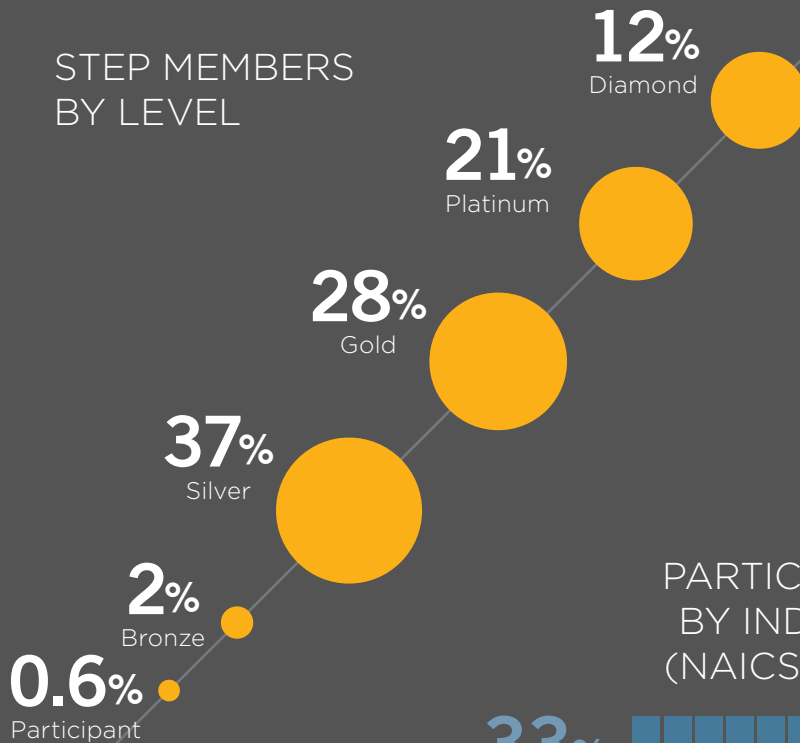
The charts and summaries within this report present the clearest picture to date of the remarkable impact that leading indicator use has on a company's safety performance: fewer disrupted or lost lives and a safer jobsite regardless of the size of the company. In fact, companies that engage in leading indicator use are, statistically, considerably safer than their peers.

**Leading indicator programs work
to improve safety performance.**

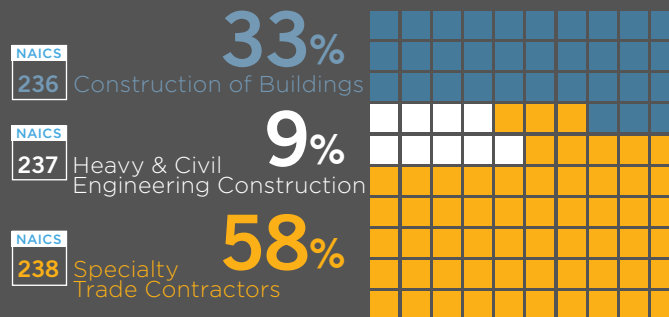
Methodology

The 2019 ABC Safety Performance Report is based on submissions of unique company data gathered from members that deployed STEP in 2018. ABC collects each company's trailing indicator data as reported on its annual Occupational Safety and Health Administration Form 300A ("Summary of Work-related Injuries and Illnesses") and its self-assessment of leading indicator practices from its STEP application. Each of the 35 data points collected is sorted using statistically valid methodology developed by the U.S. Bureau of Labor Statistics for its annual Occupational Injuries and Illnesses Survey, and combined to produce analyses of STEP member performance against BLS industry average incident rates.

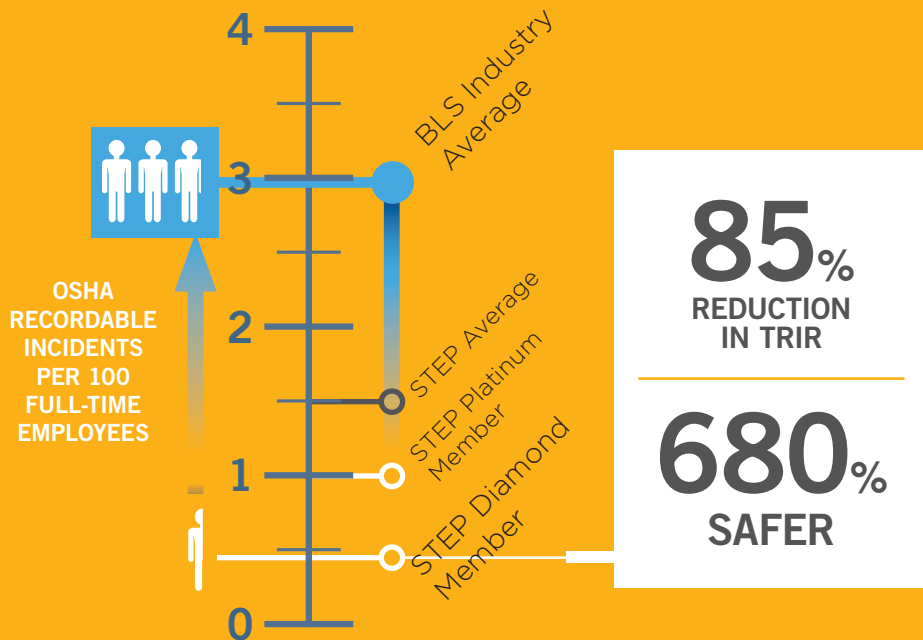
STEP MEMBERS BY LEVEL



STEP PARTICIPANTS BY INDUSTRY (NAICS) CODE



ABC STEP MEMBERS ARE SAFER THAN THE INDUSTRY AVERAGE



Total Recordable Incident Rate: STEP vs. the U.S. Bureau of Labor Statistics Industry Average

What If Your Company Could Be 680 Percent Safer Than the Industry Average?

And you could reduce your Total Recordable Incident Rate by 85 percent?

It's more than possible. **It's doable.**

The 2019 ABC Safety Performance Report is not a research project or academic study. It captures the results of ABC STEP member companies performing real work on real projects. ABC is building on analysis of nearly a billion hours of work annually presented in the 2016, 2017 and 2018 reports to identify what comprises a world-class safety program.

TRAILING INDICATORS: OUTPUTS AND RESULTS

Measuring Safety Performance

The construction industry has long evaluated safety performance based on trailing indicators—statistics that measure performance based on past incidents or conditions. These statistics judge companies not on the steps taken to prevent jobsite injuries and fatalities, but rather on the number of past safety failures. Trailing indicators only tell part of the story.



Total Recordable Incident Rate



Days Away, Restricted or Transferred Rate



Experience Modification Rate

3

FATAL INJURIES PER DAY



Every workday in the construction industry, an average of three people are fatally injured.

Safety performance isn't reflected in what you **did**. It's reflected in what you're **doing**.

LEADING INDICATOR IMPLEMENTATION



TRAILING INDICATOR PERFORMANCE

GOAL: Determine the correlation between **leading** indicator implementation and **trailing** indicator performance

What's Behind World-class Safety Performance?

Innovative thinking from contractors, the owner/user community and insurers puts leading indicators under the microscope.

ABC has been studying how to improve safety through STEP since 1989.

STEP is comprised of 20 key components, leading indicators that are proven to improve safety performance and the criteria that indicate best practices. Members that deploy STEP score their level of achievement for each component on a weighted scale of 0 points (low score) up to 12 points (high score). Companies receive a recognition level of Diamond, Platinum, Gold, Silver, Bronze or Participant based on their score.

ABC quantified the positive impact of proactive injury and hazard elimination tools on the jobsite using data gathered from STEP participants in construction, heavy construction, civil engineering and specialty trades. Analyzing aggregated data allows ABC to determine how measures taken to prevent incidents actually improve trailing indicator performance.

20 Key Components of a
world-class safety program.

STEP Improves Safety



STEP is a safety management system. Participating ABC member firms measure their safety processes and policies on 20 key components, through a detailed questionnaire with the goal of implementing or enhancing safety programs that reduce jobsite incident rates. Applying world-class processes dramatically improves safety performance among participants regardless of company size or type of work.



STEP ACHIEVEMENT LEVELS

TRIR at or below 50 percent of the BLS NAICS code average in each of the previous three data years

TRIR 25 percent below the BLS NAICS code average for the data year

TRIR at or below BLS NAICS code average for the data year

EMR at or below 0.7 beginning Jan. 1 of the application year

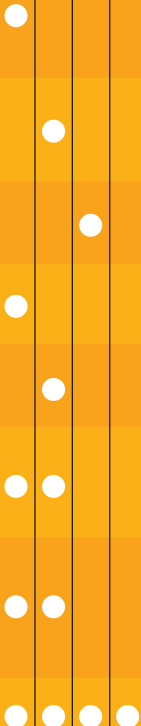
EMR at or below 0.8 beginning Jan. 1 of the application year

No lives lost or catastrophic incidents, company-wide, during the application year

No lives lost or catastrophic incidents, company-wide, during the previous three years resulting in an OSHA citation

Minimum 20 key components score

STEP Diamond
STEP Platinum
STEP Gold
STEP Silver/Bronze



Get Into STEP

Analyze your safety and loss program

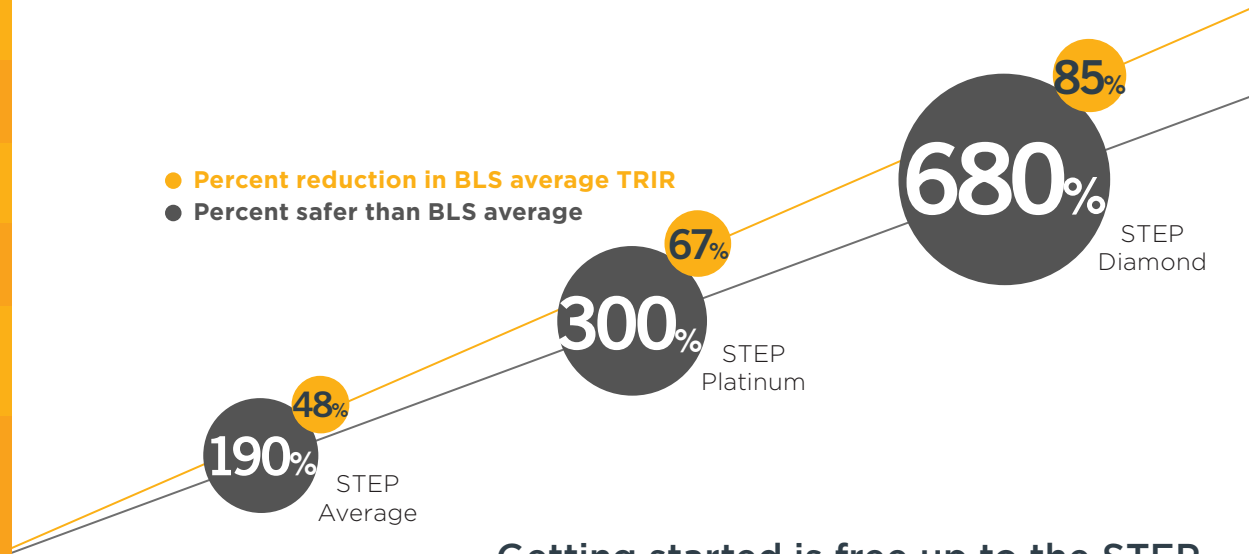
Learn the best practices that reduce TRIR, DART and EMR

Benchmark your safety record against similar companies and industry averages

Measure improvement from year to year

Show your safety commitment to potential clients and insurers

● Percent reduction in BLS average TRIR
● Percent safer than BLS average



Getting started is free up to the STEP Platinum level. Visit abc.org/step.

The Roadmap to World-class Safety

LEADERSHIP

is the courage to be out front, challenge the status quo and create a

CULTURE

that is passionate in its belief that all incidents are preventable—a culture where safety is considered a moral obligation not just for leaders, but for all employees. A culture of safety cannot exist without leaders taking a stand that includes an unwillingness to compromise safety and modeling this belief in every action.





LEADERSHIP COMMITMENT

C-suite Engagement and Commitment Matters

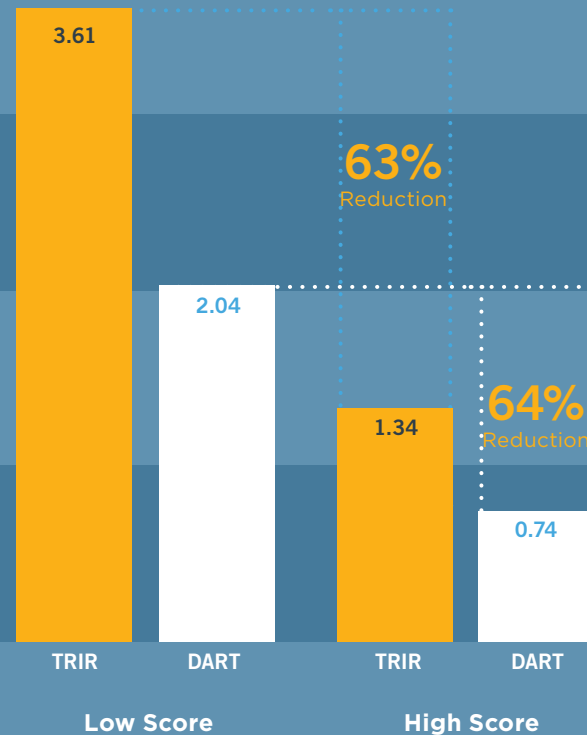
Employer involvement at the highest level of company management produces a 63 percent reduction in TRIR. In high-scoring ABC STEP member firms, the owner/CEO:



“Within our company, we define leadership as a behavior. If we do our jobs as leaders, all in, all day, every day, and have each other’s backs, we will send our team members home more enriched and in better condition than when they arrived.”

—Michael W. Bennett, vice president, The Cianbro Cos., Pittsfield, Maine, STEP Diamond and ABC Accredited Quality Contractor

EMPLOYER INVOLVEMENT AT THE HIGHEST LEVELS (C-SUITE): LOW SCORE VS. HIGH SCORE





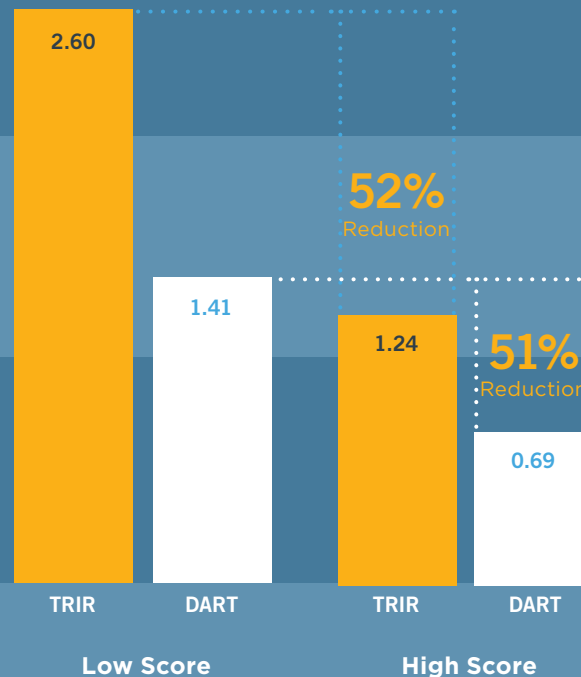
CULTURAL TRANSFORMATION

New Hire Safety Orientation

Companies that conduct an in-depth indoctrination of new employees into the safety culture, systems and processes based on a documented orientation process experience nearly 50 percent lower incident rates than companies that limit their orientations to basic safety and health compliance topics. The CEO or senior leadership delivers that introduction to the company's safety culture and core values, including:

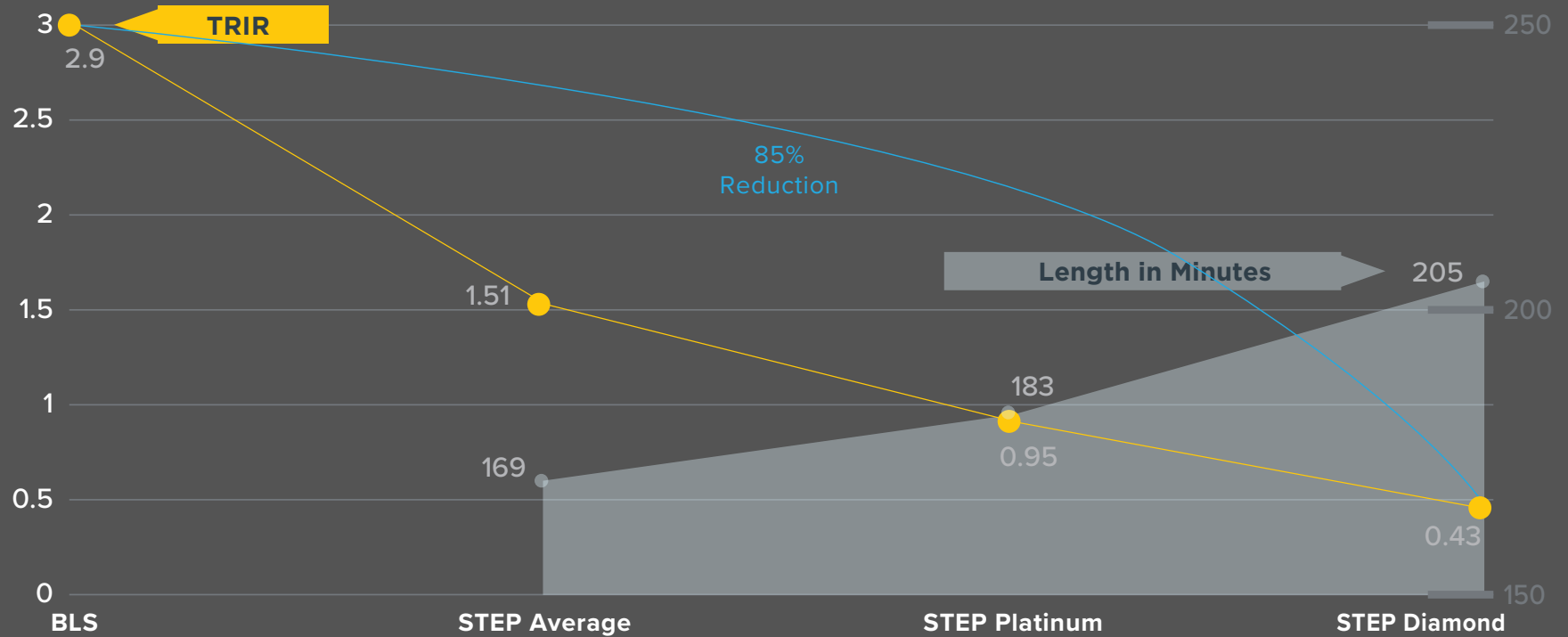


NEW HIRE SAFETY ORIENTATION: LOW SCORE VS. HIGH SCORE



IN-DEPTH SAFETY ORIENTATIONS ARE MORE EFFECTIVE

STEP Diamond companies that conduct new hire orientation sessions of more than 200 minutes on average improve their TRIR by 85 percent.



Eight Core Leading Indicators

A leading indicator is a system or process used to identify hazards and eliminate or minimize the condition to prevent injury.

This report focuses on eight core leading indicators that have the most dramatic impact on safety performance.

1

**TOOLBOX
SAFETY TALKS**

2

**SUBSTANCE
ABUSE PROGRAMS**

3

**SAFETY PROGRAM
PERFORMANCE
REVIEW**

4

**TAKING ACTION
ON TRAILING
INDICATORS**

5

**EMPLOYER
SUPERVISORY
SAFETY MEETINGS**

6

**USE OF PERSONAL
PROTECTIVE
EQUIPMENT**

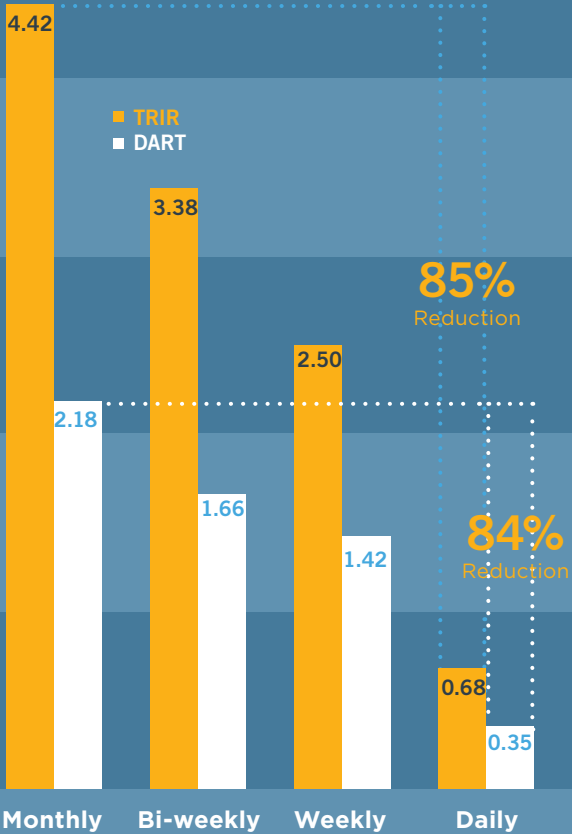
7

**PRE-PLANNING
FOR JOBSITE
SAFETY**

8

**SAFETY PROGRAM
GOAL SETTING**

FREQUENCY OF TOOLBOX SAFETY TALKS



1

CORE LEADING INDICATORS

Toolbox Safety Talks

Can you brief employees on safety too much? No matter what you may have heard, there is no negative effect to conducting daily toolbox safety talks—brief, single-topic training sessions of 15 to 30 minutes held on the jobsite for all employees. The less frequently this type of training is conducted and the fewer safety topics covered, the higher the trailing indicators. Companies that conduct daily toolbox talks reduce TRIR by 85 percent compared to companies that hold them monthly.



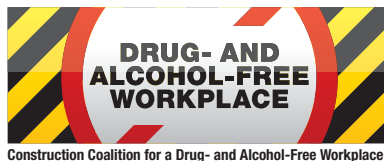
“Starting each day with a toolbox safety talk not only reinforces those general safe work expectations and obligations, but more importantly, demonstrates to the workforce the importance of putting safety first each and every day.”

—Shelley Sutton, vice president of shared services, hth companies inc., Union, Missouri, STEP Platinum, ABC Accredited Quality Contractor

2 CORE LEADING INDICATORS

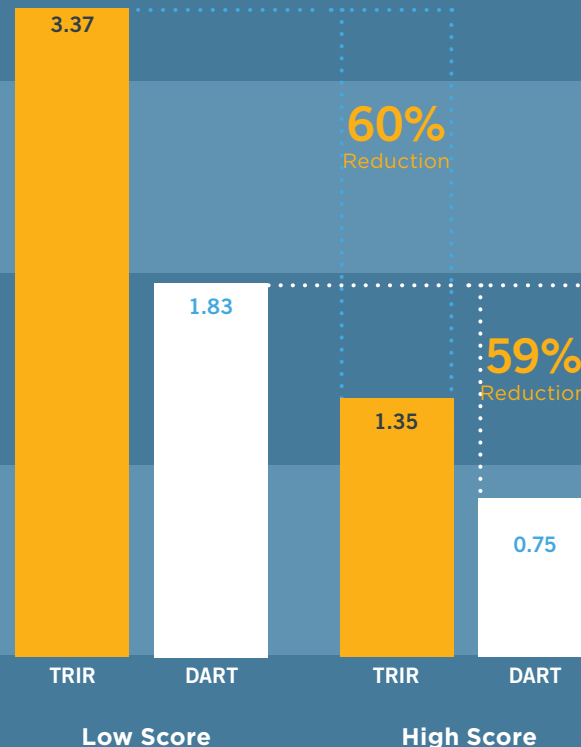
Substance Abuse Programs

One-third of all incidents on construction jobsites are drug- or alcohol-related. Companies with substance abuse programs/policies with provisions for drug and alcohol testing where permitted are 60 percent safer than those without a program. Plus, substance abuse testing can be an effective method of incident prevention if used properly.




ABC is an active member of the Construction Coalition for a Drug- and Alcohol-free Workplace. Take the pledge at drugfreeconstruction.org.

SUBSTANCE ABUSE PROGRAMS: LOW SCORE VS. HIGH SCORE



SUBSTANCE ABUSE PROGRAMS REDUCE INCIDENTS

Key components include:



A safety policy with strict rules regarding drug and alcohol use, supervisor training, recordkeeping and active enforcement

Drug and alcohol testing pre-hire, randomly and with reasonable suspicion

An employee assistance program and available education on substance abuse prevention

“Substance abuse policies are vital to every safety-minded company’s ability to ensure a safe jobsite for their employees. As responsible employers, we are obligated to ensure that our employees are free from substances that may impede their ability to make sound decisions that have a direct impact on their safety. That’s why ABC requires all members who deploy STEP to pledge to confront this important issue head-on as part of its annual application process.”

—Frank Trujillo, vice president of safety, Miller & Long Co. Inc., Bethesda, Maryland, STEP Gold

3 CORE LEADING INDICATORS

Safety Program Performance Review

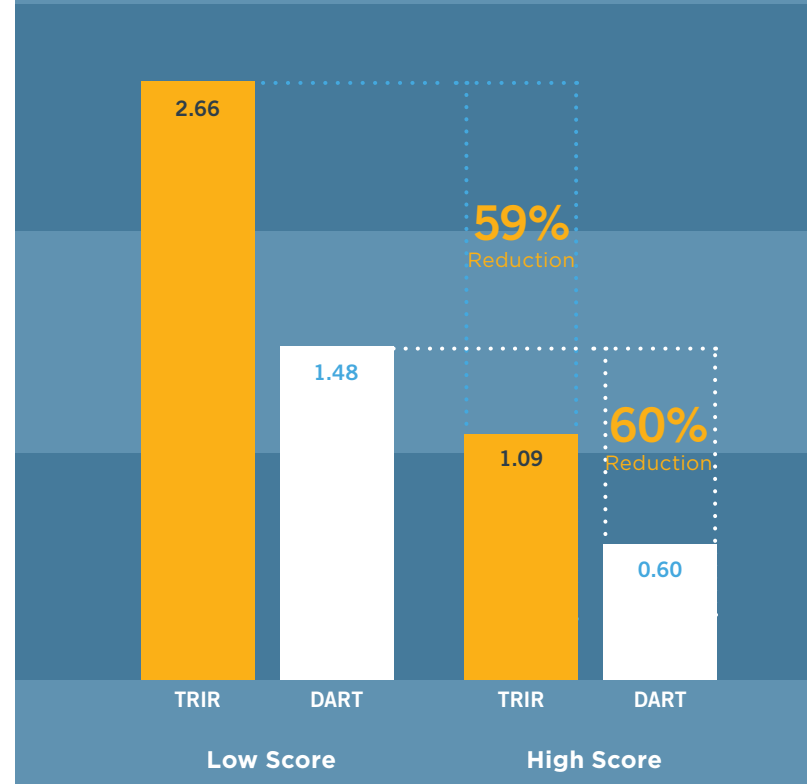
A biannual review of safety program performance by executive leadership that evaluates whether the program is producing expected results and identifies opportunities for improvement leads to a 59 percent reduction in TRIR and a 60 percent reduction in DART rates.

“To consistently achieve an elite level of safety performance, it is critical to know which tools, programs and procedures are the most effective. Conducting a safety performance review on a monthly, quarterly and annual basis keeps us grounded in reality and focused to make any necessary adjustments or improvements for greater success.”

—James K. Thompson, corporate EH&S director, Kwest Group LLC, Perrysburg, Ohio, STEP Diamond



LEADERSHIP MEASURES PERFORMANCE OF THE SAFETY PROGRAM: LOW SCORE VS. HIGH SCORE



4 CORE LEADING INDICATORS

Taking Action on Trailing Indicators

Training personnel to know the meaning and relevance of key safety rates and numbers such as EMR, TRIR and DART leads to a 57 percent reduction in TRIR and a 62 percent reduction in DART rates.

EMR is below 0.8 for the current and previous year (0.9 for companies with fewer than 100 employees)

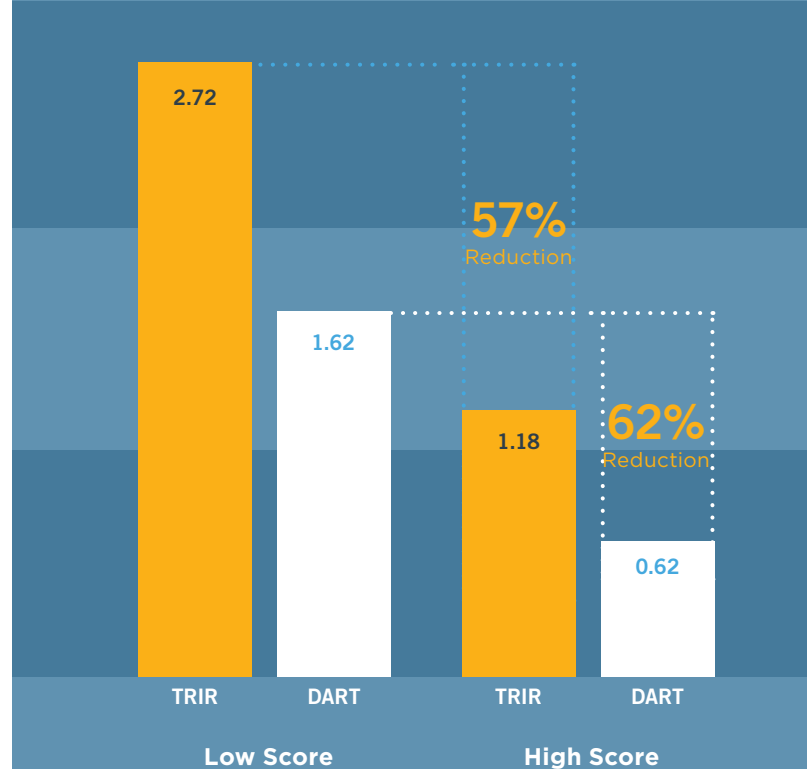
The employer regularly reviews claims, claim costs and claim trends to gauge impact on the company

Claims analysis guides resource allocation

“Trailing indicators are valuable tools to measure safety performance over time and provide insight into the frequency, severity and cost of injuries. These tools allow us to see how we have improved over the years and to set attainable goals as we work to create a workplace free from injury-producing events.”

—Eric Simmons, corporate safety director, Helix Electric, San Diego, STEP Platinum, ABC Accredited Quality Contractor

REVIEW OF CLAIMS AND KEY SAFETY RATES: LOW SCORE VS. HIGH SCORE





5 CORE LEADING INDICATORS

Employer Supervisory Safety Meetings

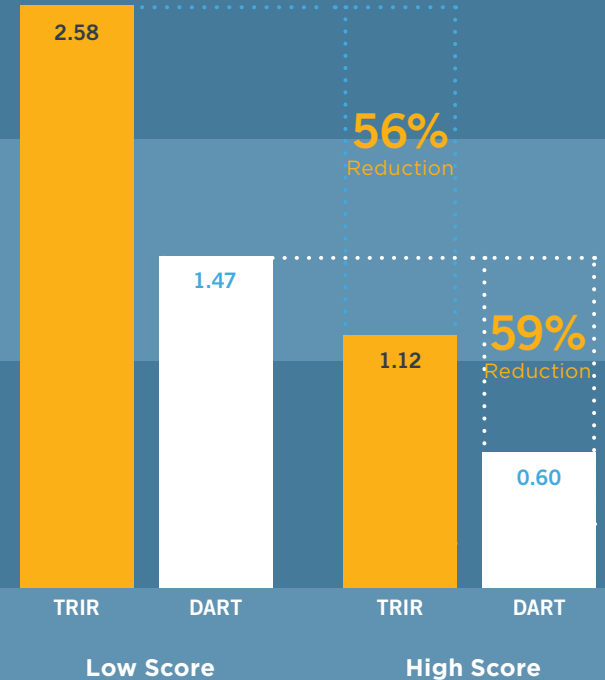
Conducting weekly safety meetings with supervisors and distributing minutes for review leads to a 56 percent reduction in TRIR and a 59 percent reduction in DART rates.

“The best way to mitigate hazards is to know where they are in the first place—and talk about it! We make it a daily practice to identify the potential hazards and risks unique to each jobsite. We communicate this to our workers in English and Spanish during morning briefings and display it prominently so all workers can safely perform their duties and mitigate exposure to risk.”

—Scott Skidelsky, president, Balfour Beatty, Orlando, Florida, STEP Platinum, ABC Accredited Quality Contractor



EMPLOYER-CONDUCTED SUPERVISOR SAFETY MEETINGS: LOW SCORE VS. HIGH SCORE





6 CORE LEADING INDICATORS

Use of Personal Protective Equipment

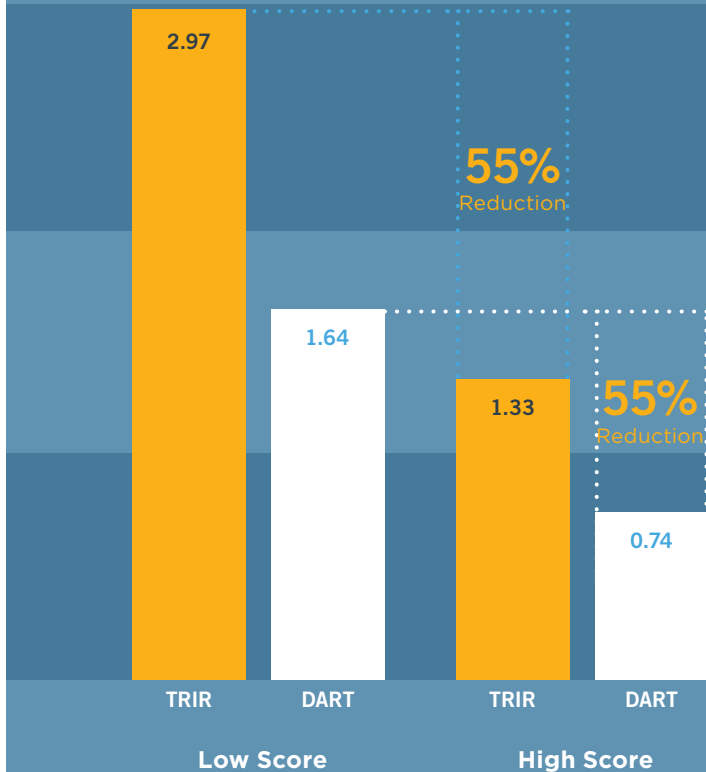
Having a written PPE policy that is consistently and universally enforced, conducting an annual needs assessment and continually investing in new equipment leads to a 55 percent reduction in TRIR and DART rates.

“The best line of defense against injury and exposure to undesired events is to work diligently toward elimination of hazardous conditions in the work environment or planning for their avoidance. The cost to implement a robust PPE program on the forefront of technology is far outweighed by the dividends of effective PPE use.”

—Troy Allen, vice president of HSE, Primoris Services Corporation, Baton Rouge, Louisiana, STEP Diamond



USE OF PPE: LOW SCORE VS. HIGH SCORE





7 CORE LEADING INDICATORS

Pre-planning for Jobsite Safety

Integrating safety pre-planning into the estimating, bid and pre-mobilization phases of a project leads to a 53 percent reduction in TRIR and a 54 percent reduction in DART rates.

“Nobody starts their workday with the goal of having a job-related accident, but safety programs that over-rely on workforce interventions miss a substantial opportunity to proactively identify, mitigate and minimize risk. Pre-planning the safety aspects of construction work helps identify potential problems before they mature to the point of threatening site safety.”

—Jon Lynch, president, Three Rivers Corp., Midland, Michigan, STEP Diamond



PRE-PLANNING FOR JOBSITE SAFETY: LOW SCORE VS. HIGH SCORE





CORE LEADING INDICATORS

Safety Program Goal Setting



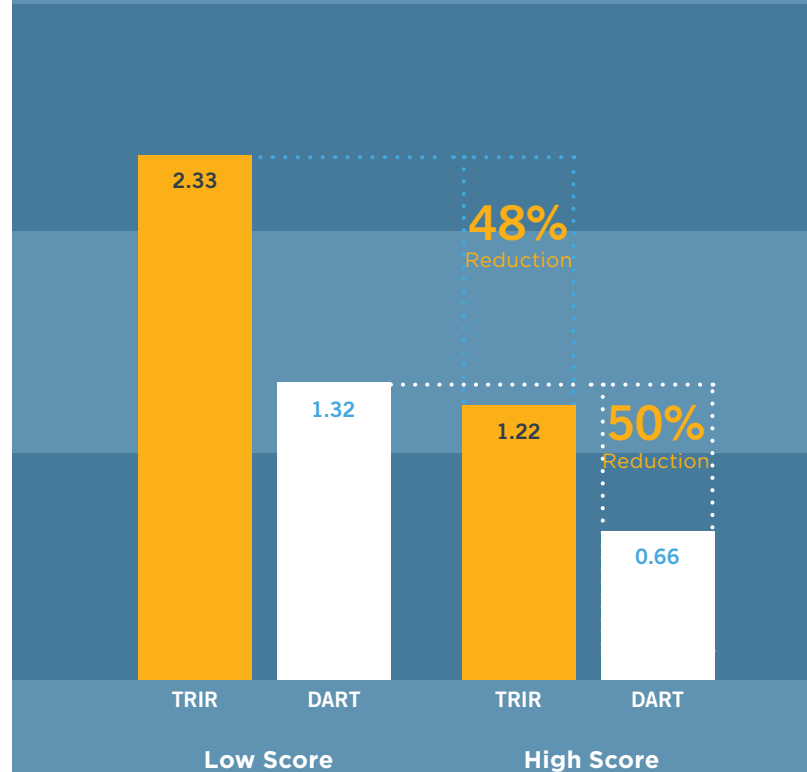
Implementing a formal process to annually assess safety program needs and establish safety goals leads to a 48 percent reduction in TRIR and a 50 percent reduction in DART rates.

“When it comes to safety, we must all be leaders. Our priority is the health and safety of everyone on our jobsites. We conduct behavioral-based field observations that are entered into a database for review and trend analysis to meet our global minimum.”

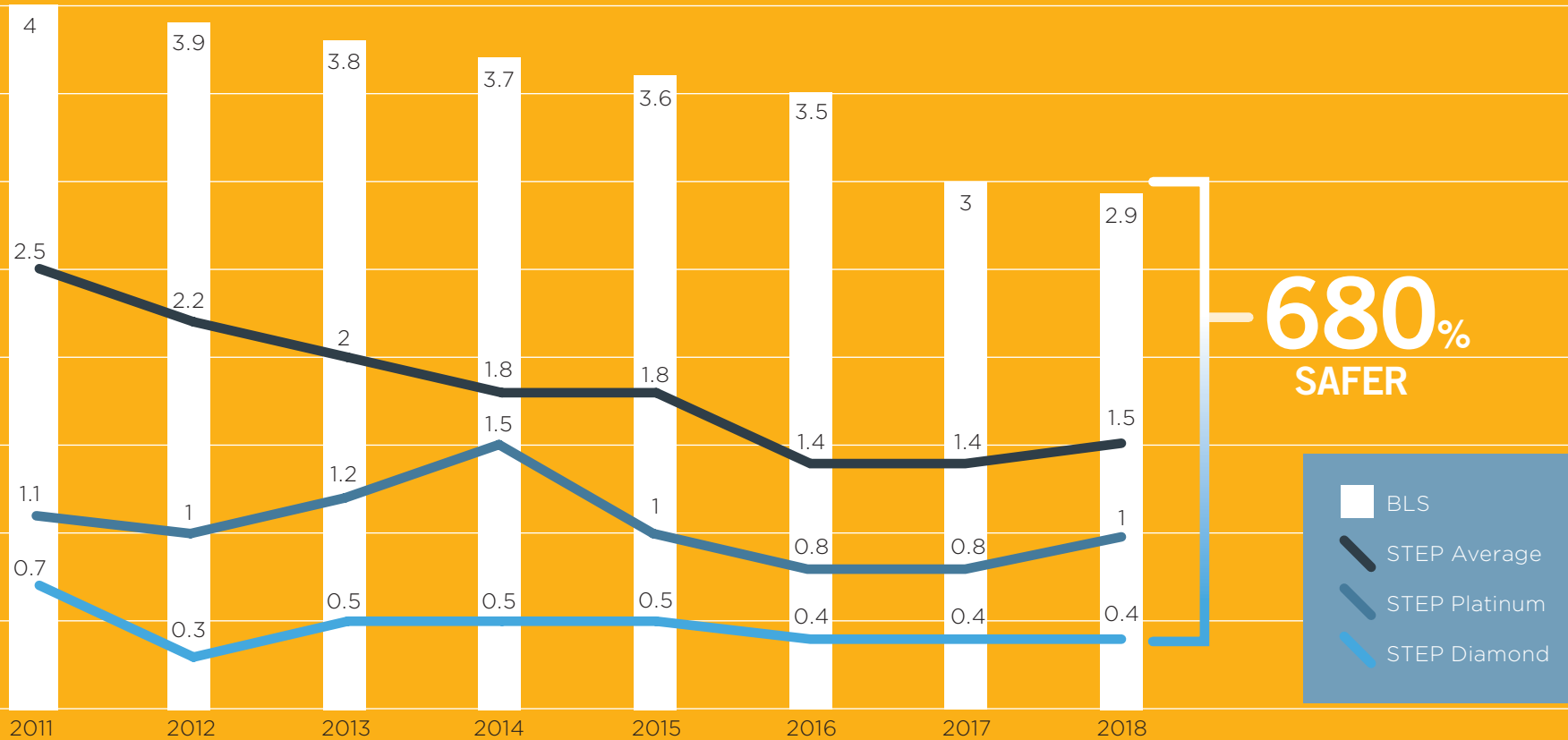
—Joel Pickering, environment, health and safety director and senior vice president, Lendlease (US) Construction LMB Inc., New York, STEP Diamond



ESTABLISHING SAFETY GOALS: LOW SCORE VS. HIGH SCORE



BENCHMARKING STEP MEMBER SAFETY PERFORMANCE, 2011-2018



Total Recordable Incident Rate: STEP vs. the U.S. Bureau of Labor Statistics Construction Industry Average

Glossary of Common Terms

ABC – Associated Builders and Contractors, a construction trade association representing more than 21,000 merit shop contractors and affiliated firms nationwide.

Accredited Quality Contractor – ABC’s credential recognizing members’ commitment to corporate responsibility in quality, safety, talent management, education, community relations and diversity.

BLS – U.S. Bureau of Labor Statistics, a federal agency responsible for providing statistical analysis on workplace injuries, illnesses and fatalities. Operates under the scope of the U.S. Department of Labor.

CII – Construction Industry Institute, a consortium of owners, engineering-construction firms and suppliers focused on the effectiveness and sustainability of the capital facility life cycle through research and industry initiatives.

CCDAFW – Construction Coalition for a Drug- and Alcohol-free Workplace, established

in 2012 by construction trade associations to develop resources in the campaign to eliminate substance abuse in the industry.

CURT – The Construction Users Roundtable represents many owners, users and clients that hire construction industry firms.

DART – Days Away, Restricted or Transferred rate. Measures the number of cases per 100 full-time employees where an injury or illness causes an employee to be restricted or transferred based on inability to perform normal job functions.

Disrupted Life/Lives – Non-statistical term used to describe the impact on the employee, friends and family when a life has been disrupted because of an injury suffered during work hours.

EMR – Also referred to as Experience Modification Rate or “mod factor.” Calculation normally performed by the insurance industry (National Council on Compensation Insurance or state-level agency) reflecting percentage

of workers’ compensation payouts by a company compared to a company of similar size and type.

FTE – Full-time employee as defined by BLS and captured on a company’s OSHA Form 300A, which tracks the number of full-time employees that a company employs in the course of a calendar year.

Leading Indicators – Metrics used to measure the use and effectiveness of incident prevention (e.g., near-miss reporting, use of substance abuse programs, site safety orientation programs, etc.).

Lost Life/Lives – Non-statistical term used to describe a fatality caused by an injury suffered during work hours and the long-term impact, beyond the lost life, on family and friends.

Near-miss Tracking – Observations made and recorded of cases where, had conditions been different, an OSHA recordable incident would have occurred. Also referred to as “near-hits.”

OSHA – The Occupational Safety and Health Administration, a U.S. government agency tasked with establishing workplace safety and health requirements and enforcement of existing rules. Operates under the scope of the U.S. Department of Labor.

OSHA Form 300A – The “Summary of Work-Related Injuries and Illnesses” required by OSHA for all companies with 11 or more employees. It is created using information gathered from a company’s OSHA Form 300, the “Log of Work-Related Injuries and Illnesses.”

Pre-planning for Jobsite Safety - Evaluating safety, quality and efficiency processes to eliminate hazards and accident potential during the identification of potential projects. Continuing that process in the estimating, pre-bid planning, bidding, sourcing, permitting, staging, jobsite evaluations, jobsite management planning, job-specific training and repeating the process for any work order changes or job scope/plan revisions.

Safety Portion of a Company’s New Hire Orientation – Amount of time, in minutes, a company devotes to covering safety-related topics during orientation for all new employees.

Safety Program Goal Setting - Developing and implementing descriptive goals for a safety program that controls hazards. Additional safety goals may include participation in safety committees, setting a number of weekly observations, conducting emergency safety drills, etc.

Safety Program Performance Review - Key safety leaders monitor performance and progress, verify the program is implemented and operating as designed, correct program shortcomings and identify opportunities to improve.

STEP – ABC’s safety management system, created in 1989 to gather data related to member safety performance and to evaluate the effectiveness of safety programs based on 20 key components of world-class safety programs.

Toolbox Safety Talks – Topic-specific, short-format training, usually conducted before the workday or during lunch breaks, aimed at crews and site employees to educate on specific safety and health topics, hazards, policies and procedures.

Trailing Indicators – Metrics used to measure safety performance based on historical data (e.g., incident rate, DART, etc.).

TRIR – Total Recordable Incident Rate. Measures the number of cases per 100 full-time employees where an injury or illness caused a loss of life, situation where an employee is unable to work (days away), is restricted or transferred based on inability to perform normal job functions or any other injury that falls under OSHA’s definition of a recordable incident.

ABC 2018 SAFETY AND HEALTH COMMITTEE

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Kwest Group

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Executive Vice President
BC Construction Group LLC

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hth companies

Jim Thompson
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and Safety Director*
Kwest Group



Established in 1950, Associated Builders and Contractors is a national construction industry trade association representing more than 21,000 members. Founded on the merit shop philosophy, ABC and its 69 chapters help members develop people, win work and deliver that work safely, ethically and profitably for the betterment of the communities in which ABC and its members work. **Visit us at [abc.org](https://www.abc.org).**





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