



# 2019 DDC Safety Summit

**THINK SAFETY!**

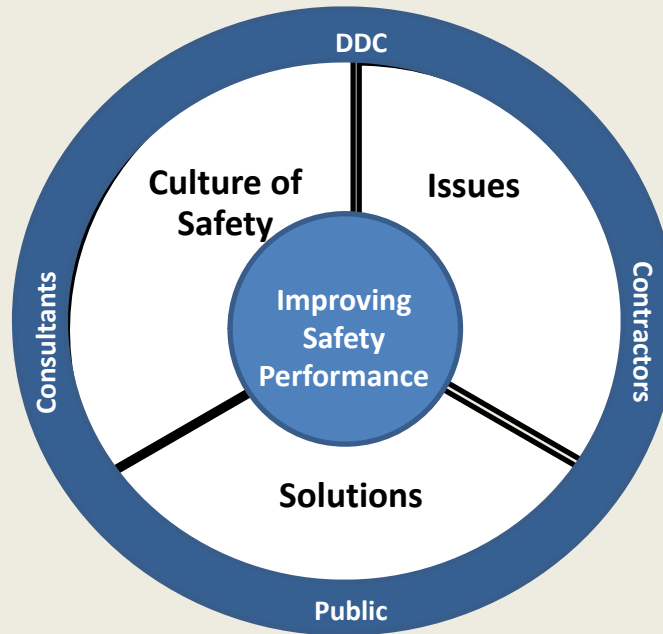
Department of  
Design and Construction

Lorraine Grillo, Commissioner



## DDC GOALS

To deliver the city's construction projects in a safe, expeditious, and cost-effective manner while maintaining the highest degree of architectural, engineering, and construction quality.



# DDC PROJECTS SAFETY PERFORMANCE



**“By The Numbers”**



## ACCIDENT OR INCIDENT?

The definition of incident and accident, at DDC is as follows:

- **Incident** – An unplanned work related event that results in personal injury requiring first aid or property damage.
- **Accident** – An unplanned work related event that results in personal injury that involves medical treatment beyond first aid.

## Construction worker dies in freak saw accident

By Joe Marino

August 10, 2018 | 6:36pm



STATEN ISLAND REAL-TIME NEWS

### NYPD: Staten Island construction worker dies in freak saw incident

Updated Aug 10, 2018, Posted Aug 10, 2018

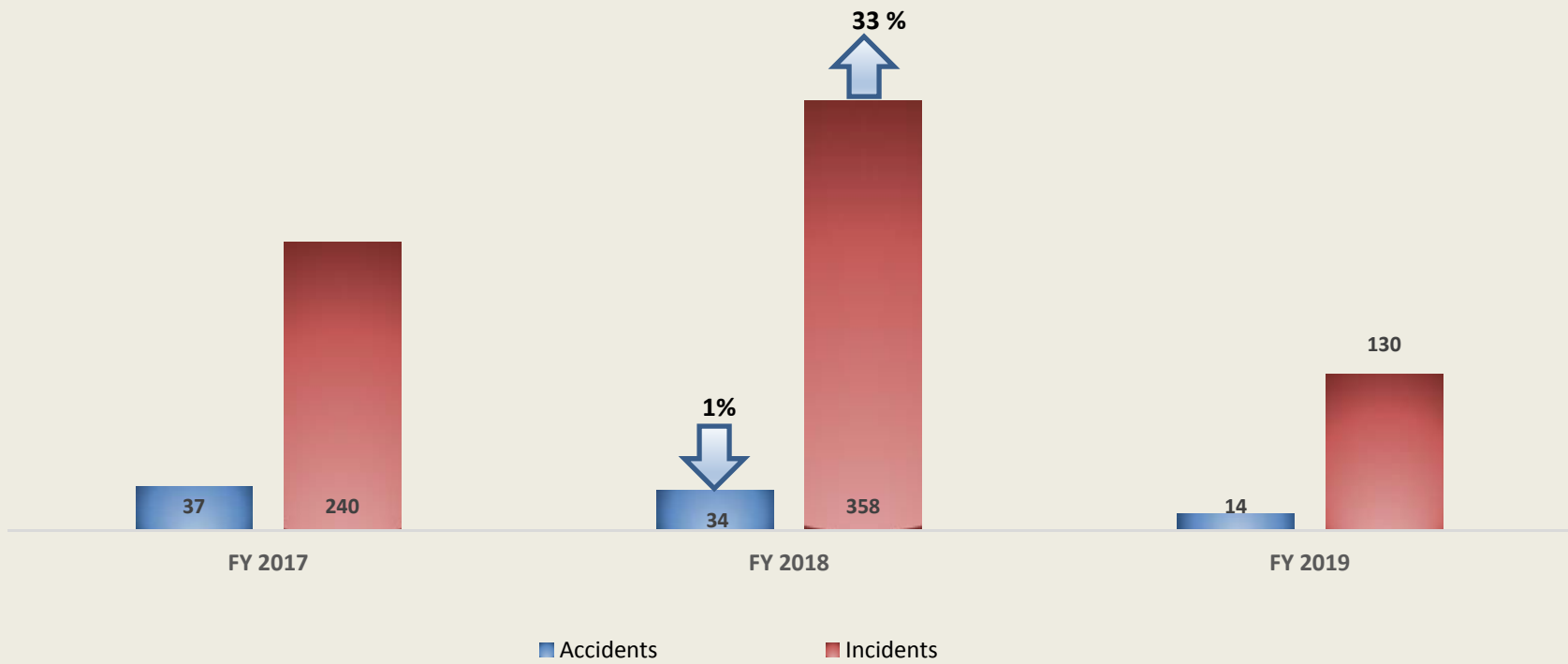


**NEW YORK POST**

# ACCIDENTS AND INCIDENTS

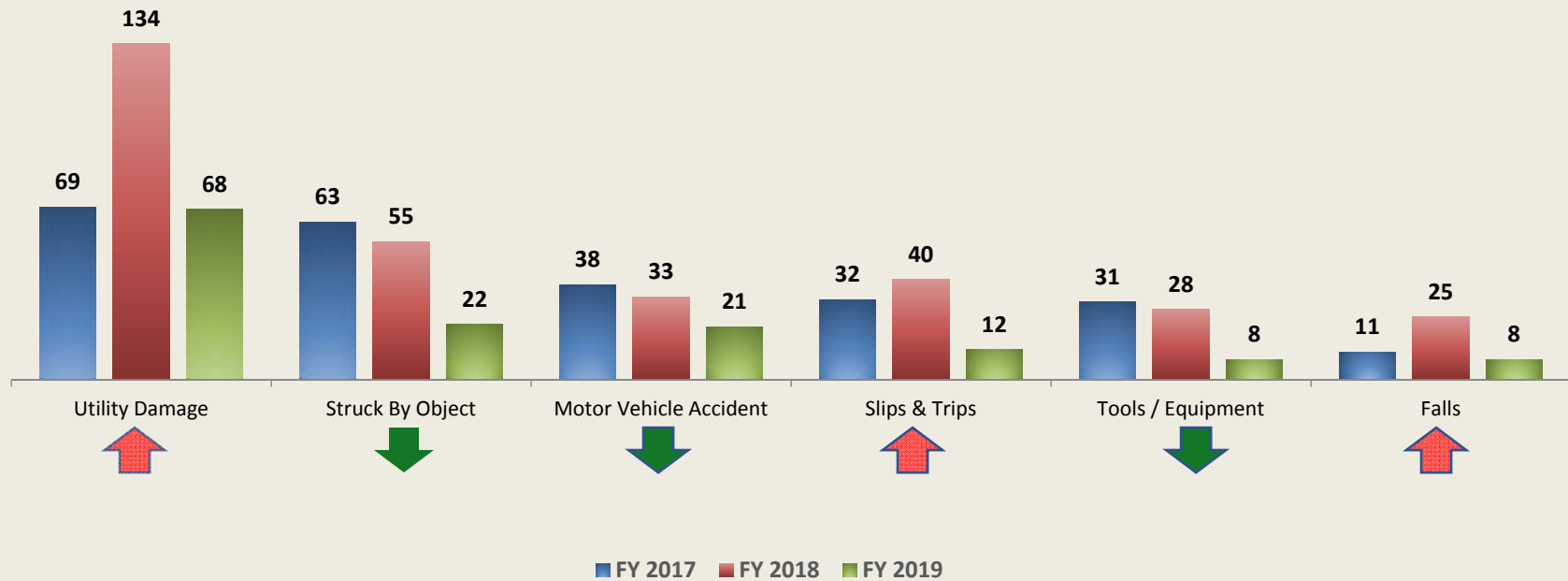
## ACCIDENTS AND INCIDENTS

## OVERVIEW



## ACCIDENTS AND INCIDENTS

## TOP CAUSES



## CAUSES...

- **IMPROPER SELECTION OR USE OF TOOLS/EQUIPMENT**
- **FAILURE TO PROTECT UTILITIES**
- **POOR SITE HOUSEKEEPING LEADS TO SLIPS/FALLS AND STRUCK BY**

**ACCIDENTS AND INCIDENTS**





## CAUSES...

- LACK OF/OR IMPROPER PPE
- LACK OF/OR INSUFFICIENT TRAINING
- LACK OF OWNERSHIP AND OVERSIGHT

ACCIDENTS AND INCIDENTS

## DAMAGE PREVENTION 16 NYCRR PART 753

- Call Before You Dig
- Wait The Required Time
- Confirm Utility Responses
- Respect The Marks
- Dig With Care

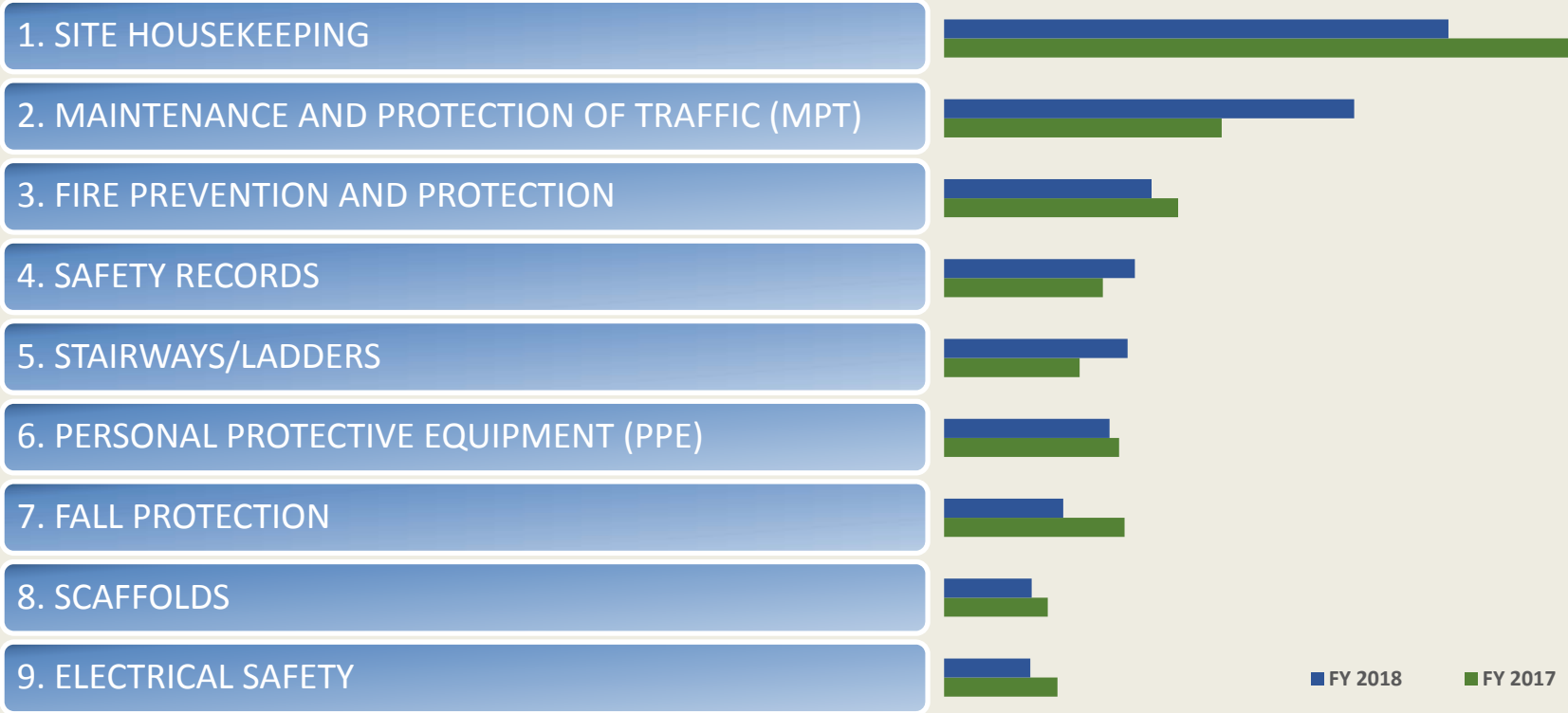




## TOP SAFETY DEVIATIONS CATEGORIES FOR FY 2018

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# TOP SAFETY DEVIATIONS CATEGORIES FOR FY 2018



## CONTRIBUTING FACTORS OF SAFETY DEVIATIONS









## PLANNING

- Unacceptable contractors Safety Program/Site Safety Plan
- Missing or inadequate contractors and subcontractors task specific written JHAs
- Missing or Incomplete
  - Permits, drawings, plans, and approvals;
  - Training and certification records for contractors and subcontractors employees.



**SAFETY HAZARDS**

### **Failure to Identify Safety Hazards**

- Work Location
- Existing and Introduced Safety Hazards
- Critical Construction Activities
- Equipment
- Weather

**CONTRIBUTING FACTORS OF SAFETY DEVIATIONS**



## Lack of or Inadequate Safety Hazard Controls

- Safety oversight at construction sites
- Role of Competent Person
- Safety Inspections
- Daily Job Briefings
- Weekly Safety Meetings

A circular inset image showing a yellow hard hat and a pair of brown work gloves. The hard hat is in the foreground, and the gloves are behind it.

**CONTROLS**

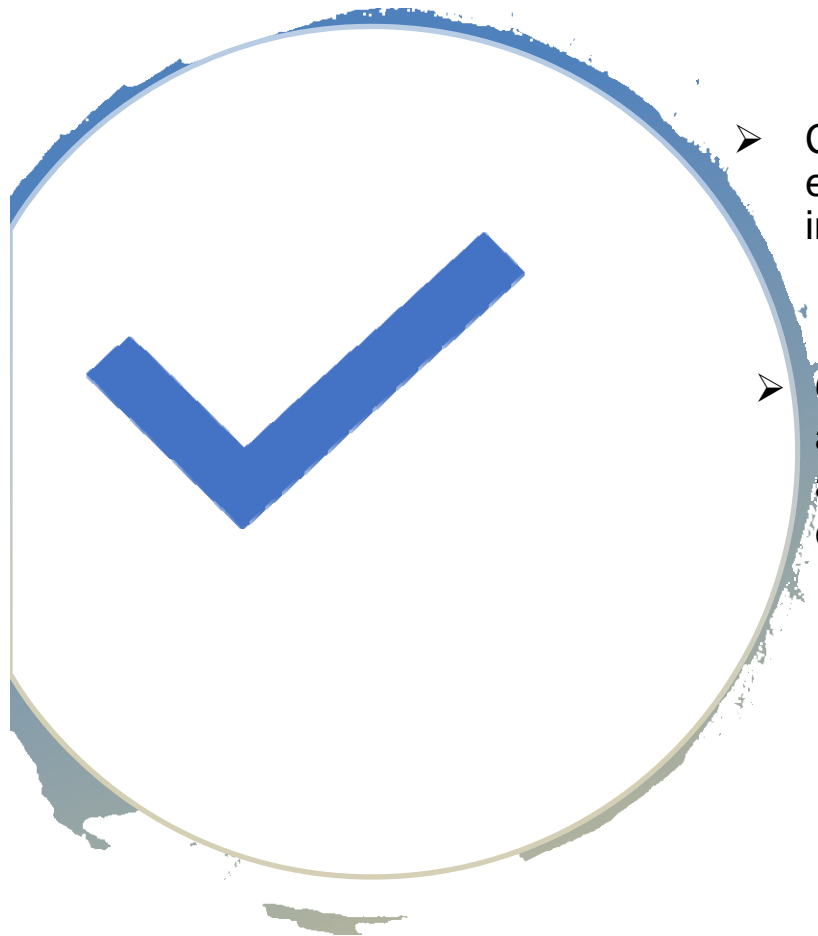
**CONTRIBUTING FACTORS OF SAFETY DEVIATIONS**



## DDC PROJECTS SAFETY PERFORMANCE



**SAFETY APPROACH**



- Contractors are expected to recognize, minimize or eliminate jobsite and public hazards, through planning, inspection, verification, and corrective action processes.
- CM and REI firms are expected to take a proactive approach ensuring that all required documentation, approvals, and safety-related items are in place prior to commencement of and during the work activities.

**DDC SAFETY APPROACH**

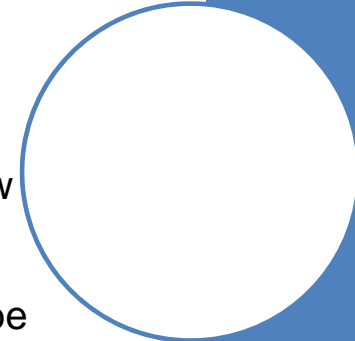
## Foundation of a Safe Project begins with:



**Each builds upon the other to create a “safety net” for our employees, contractors, consultants, and the general public.**

## SAFETY PROGRAM AND SITE SAFETY PLAN

- “Within thirty (30) days from the Award Date, or as otherwise directed, the Contractor shall submit the following:  
(1) Safety Program, and (2) Site Safety Plan.
- The Safety Program and the Site Safety Plan are subject to review and acceptance by the Construction Safety Unit prior to the commencement of work at the site. Failure by the Contractor to submit an acceptable Site Safety Plan and Safety Program shall be grounds for default.”



The **Safety Program** shall set forth the Contractor's overall safety policy, regulatory compliance plan and minimum safety standard.

The **Site Safety Plan** shall identify hazards associated with the project, and include specific safety precautions and training appropriate and necessary to complete the work.

### Safety Program Outline

**Should contain the following:**

- Organization and Responsibilities
- Safety Training Program
- Hazard Corrective Actions
- Accident/Exposure Investigation
- Protection of Utilities
- Recording and Reporting Injuries

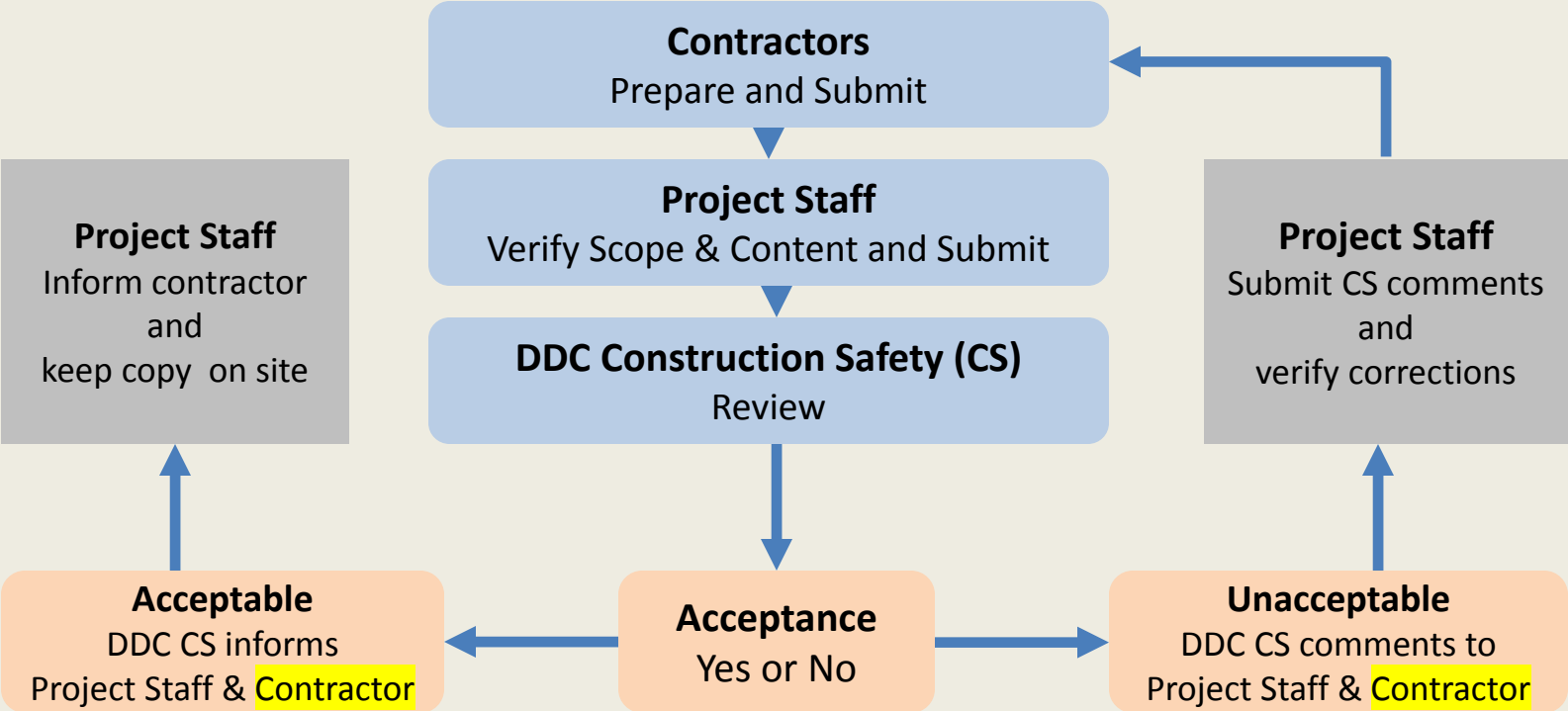
### Site Safety Plan Outline

**Should contain the following:**

- Work Scope
- Responsibility and Organization
- Safety Training and Education
- Job Hazard Analysis (JHA)
- Evacuation Plan
- Accident/Exposure Investigation



# SAFETY DOCUMENTS SUBMITTALS





## Shortcoming of Safety Programs and Site Safety Plans

- Missing and/or incomplete sections, forms, submittal of safety regulations instead of company safety procedures, outdated information.
- Not company and/or project specific; responsible personnel for implementation of safety program and site safety plan is not identified; do not reflect construction activities conducted by contractor or outlined in project work scope; submittal of general procedures instead of project specific and company specific.



## JOB HAZARD ANALYSIS (JHA)

- A JHA identifies potential hazards before they occur, focusing on the relationship between the worker, the task, tools and the work environment.
- A JHA is a **living document** that must be re-evaluated and revised to address new hazards and tasks that may develop and shall be present at the worksite and produced upon request.
- The JHA forms shall include at a minimum the following information:
  - Project ID, location, contractor's name, date JHA was created and updated
  - Project specific work tasks
  - Hazards associated with identified work tasks
  - Methods to prevent, minimize and control hazards
  - Name and signature of the contractor's certifying person



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## REGULATIONS - UPDATES



## Local Law 196 of 2017: Site Safety Training

By June 1, 2019

Workers - OSHA 30-Hour Class, or OSHA 10-Hour Class with 20 hours of additional training, or 100-Hour Training Program approved by DOB.  
Supervisors - OSHA 30 and a minimum of 30 additional training hours specified by DOB.

Who  
Requires  
Training

Workers and Supervisors at job sites that are required to designate a Construction Superintendent, Site Safety Coordinator or Site Safety Manager.

Who  
Does Not Require  
Training

Delivery persons, flag persons, Professional Engineers, Registered Architects, Project Managers, Testing Laboratories Inspectors, Special Inspectors, and Department-licensees (excluding safety professionals)

## OSHA Updated Construction Standard for Cranes and Derricks

### When

The final rule is effective beginning December 10, 2018, except the amendments to 29 CFR 1926.1427(a) and (f) (evaluation and documentation requirements), which are effective February 7, 2019.

### Major Differences

Allow crane-operator certification to be based on equipment “type” or “type and capacity”, instead of “type and capacity”.  
Employer evaluation of a crane operator’s experience and competency with respect to the particular equipment.

### Exceptions

Operators of derricks, sideboom cranes, and equipment with lifting capacity of less than 2 tons.

## New FDNY Rules – Portable Fire Extinguisher (PFE) Tags

Starting  
November 15,  
2018

New PFE Tags must be placed for annual service and new PFE installations.  
Old PFE Tags are valid until their expiration date, but no later than November 14, 2019.

Starting  
November 15,  
2019

FDNY will recognize only new PFE tags and will issue violations (civil or criminal penalty charges; denial, suspension, revocation or non-renewal of a Fire Department Certificate)

New PFE Tags

Can be provided only by FDNY approved companies.  
Standardized and have the security measures (QR Code, Hologram, Barcode, Certificate of Fitness Stamp)



## New York 811 Safety Education and Training Program

On November 5,  
2018

New York State Governor Andrew Cuomo signed Senate Bill S.6756 and Assembly Bill 9985 into Law with the intent to greatly reduce the number of excavation related accidents thereby providing greater public safety and protection.

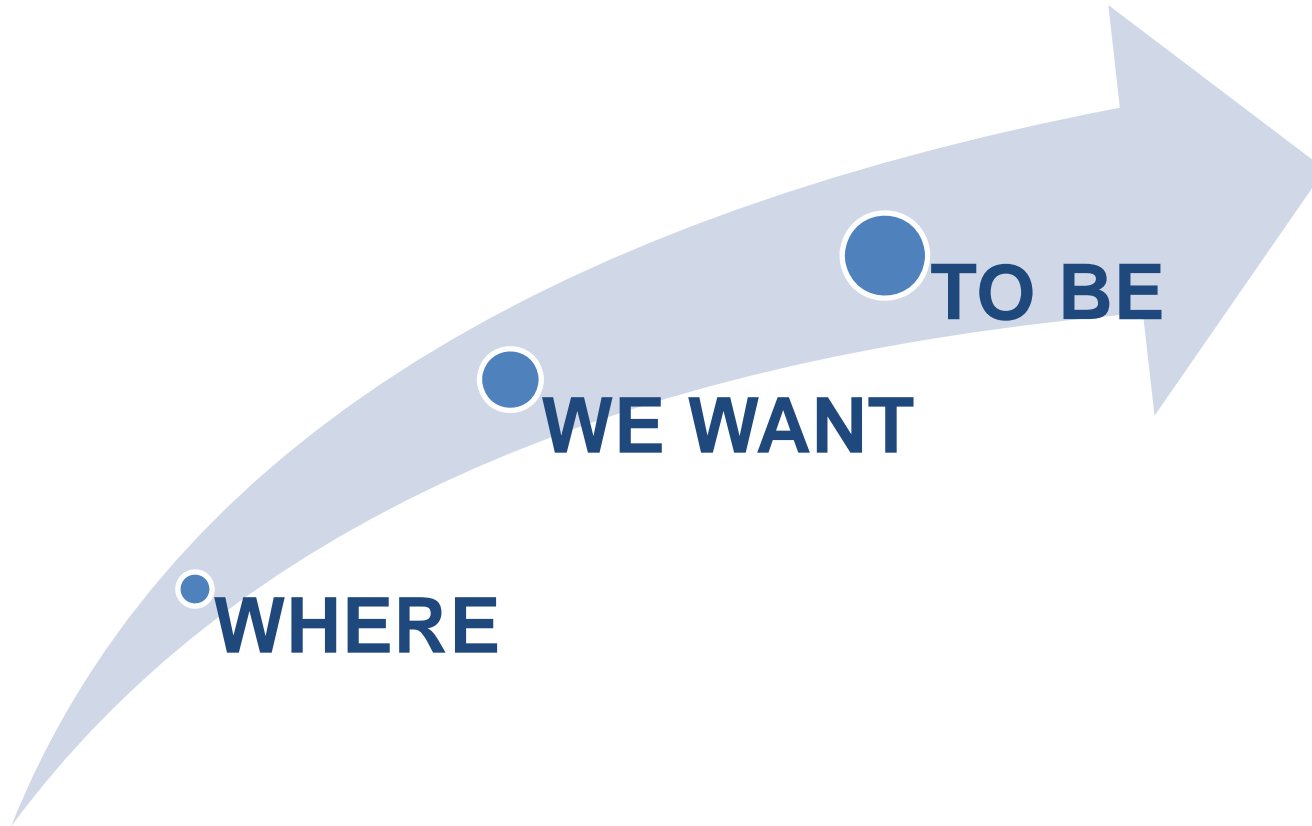
Amendment to  
NYS Code  
Rule 753

Any Operator which performs or contracts for the excavation of underground facilities shall require the excavator to have completed the training and education program provided by the One-Call Notification System.

By May 4,  
2019

Excavators will have 180 days to complete this training to be in compliance with the law – May 4, 2019.

# DDC PROJECTS SAFETY PERFORMANCE







## DDC SAFETY EXPECTATIONS

**Contractors, CM and REI must proactively comply with the responsibilities of DDC Contract Safety Requirements, prior to commencement of and during the work activities.**



Submit an acceptable Site Safety Plan free from errors and omissions

Retain properly trained and qualified staff for the activities within the scope of the work

Conduct periodic site safety inspections to assess jobsite and public hazards and implement corrective actions when needed

Ensure weekly safety meetings and daily jobsite briefings are conducted and documented

Ensure JHAs reflect construction activities, site conditions, safety hazards and controls

**Contractors, CM and REI must proactively comply with the responsibilities of DDC Contract Safety Requirements, prior to commencement of and during the work activities.**



Provide timely notification of project-related accidents and incidents

Conduct accidents and incident investigations and document findings for DDC review

Preserve scene/tools/equipment involved in accident or incident

Use accident and incident investigation findings as “Lessons Learned”

**When Contractors, CM and REI firms are actively engaged and taken a proactive approach in addressing potential and real time safety issues at the work site, the result is a safe work environment for employees and the general public.**







# Open Forum...

Department of  
Design and Construction

NYC  
D&C