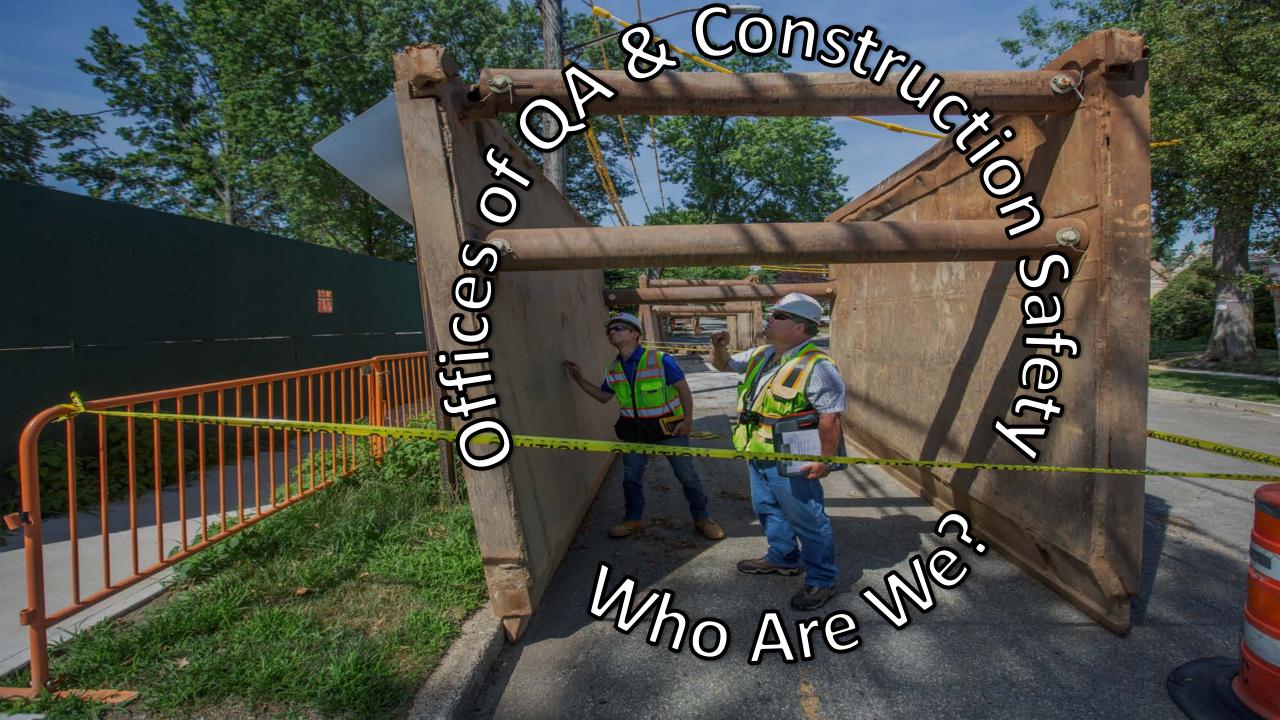




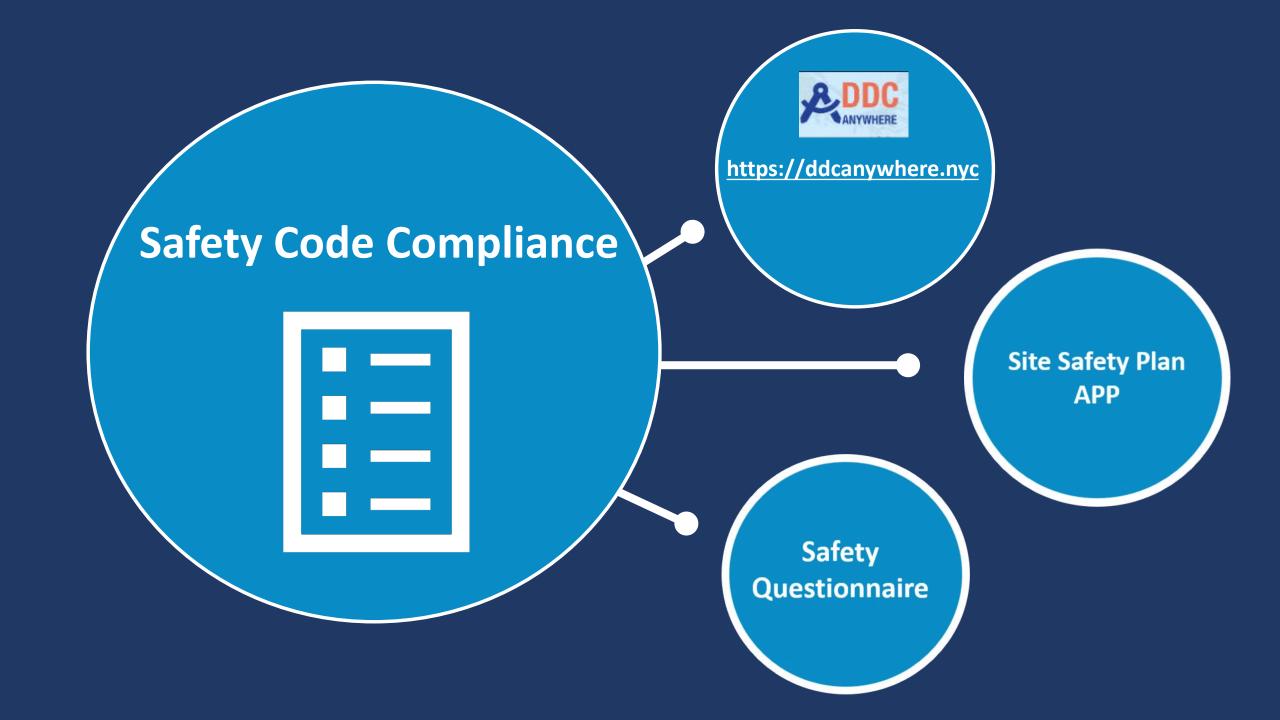
The Offices of QA & Construction Safety - Safety and Site Support Division is committed to excellence by:

- Providing technical support to Infrastructure & Public Buildings Divisions
- Ensuring Quality and Safety standards are met
- Expediting Project delivery to sponsor agencies

Collaboration by DDC Project Staff, contractors, CMs, and the Offices of QA & Construction Safety ensures a safe project site for employees and the public.













Important Dates



Site Safety Plan Prepared by Contractor



Site Safety Plan Reviewed by Project Staff



Site Safety Plan Reviewed by Safety Code Compliance



Acceptance Determined by Safety Code Compliance



As of January 2019, Safety Programs are no longer required to be submitted.



The Site Safety Application (SSP APP) was launched on August 16, 2019.

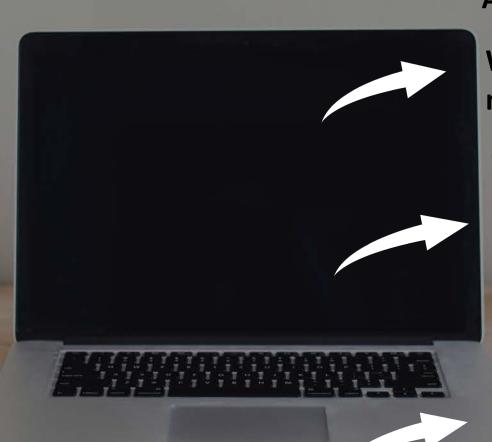


As of August 16, 2019, Contractor Site Safety Plan submittal shall be through the SSP APP.

Site Safety Plan



provided to contractors on September 23 & 29, 2019.

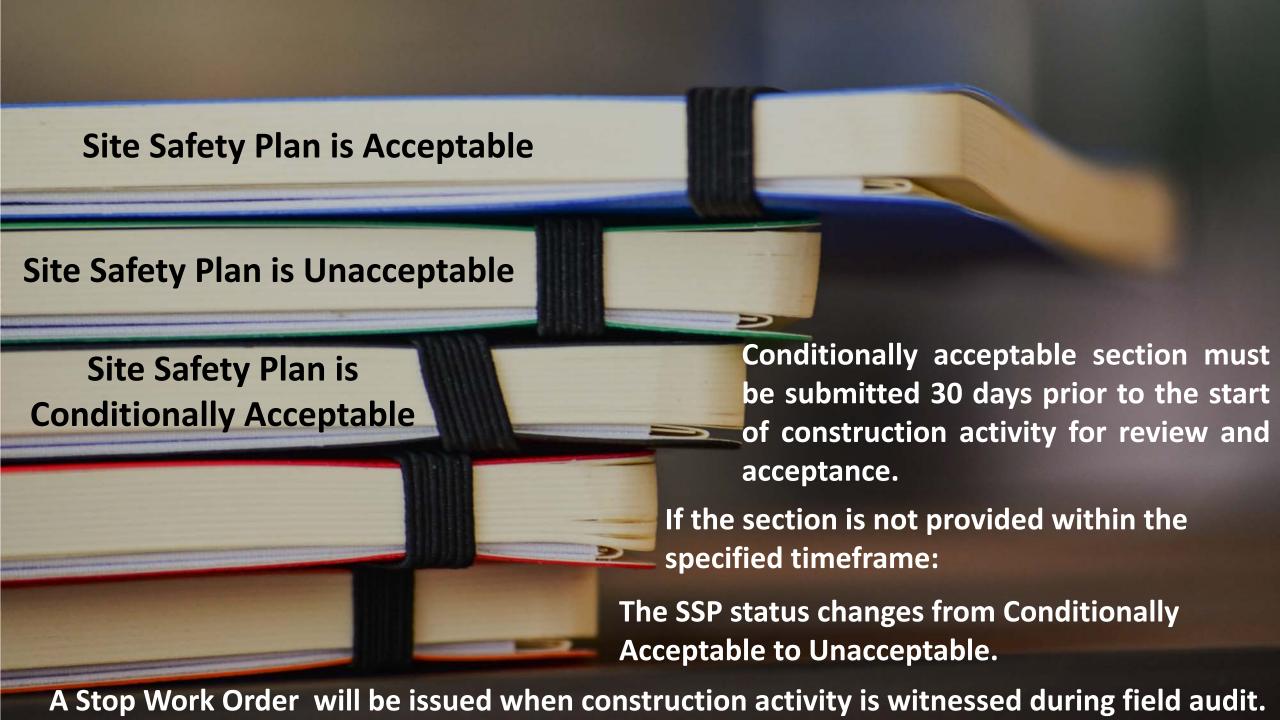


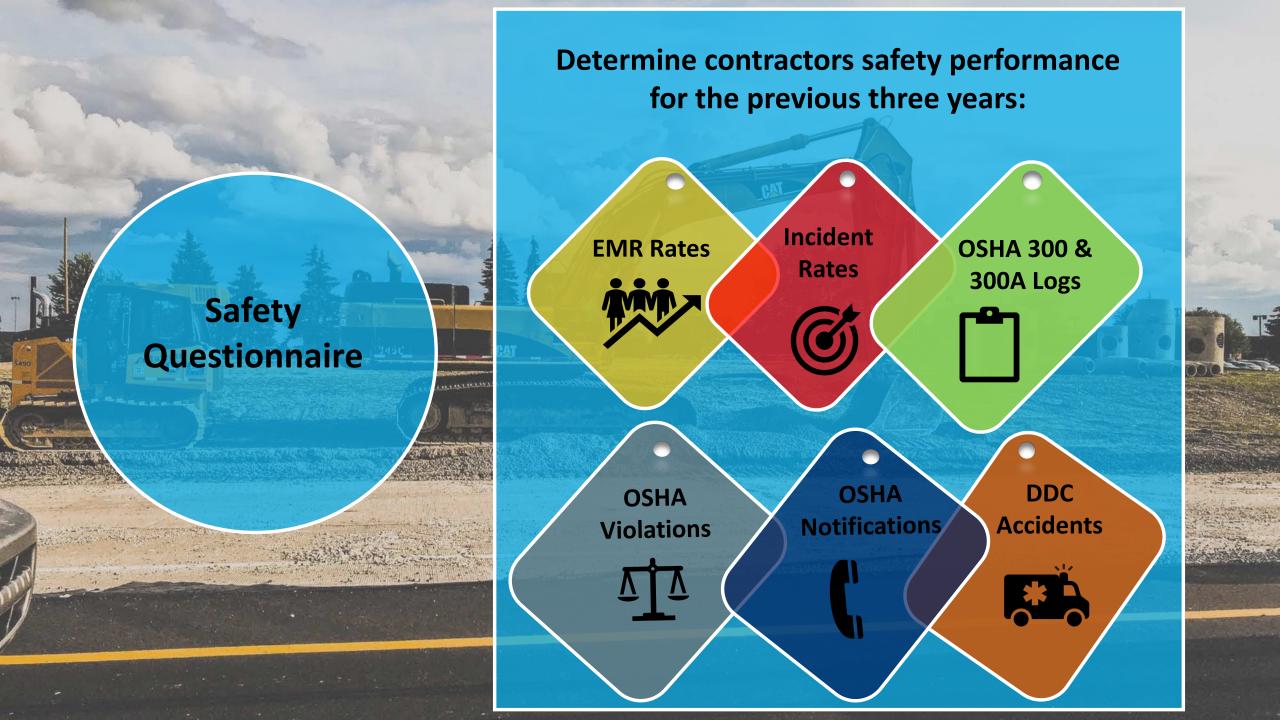
Site Safety Plans must be submitted within 30 days of Award Date.

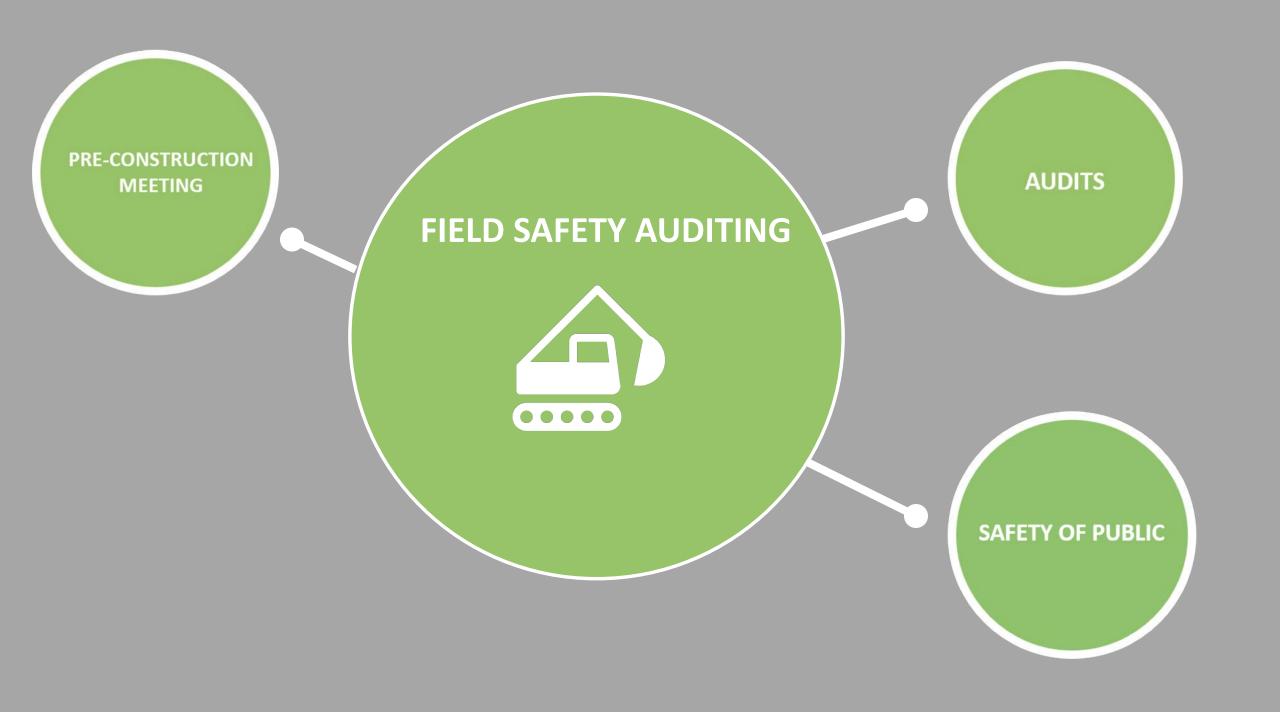
Well defined Work Scope must be provided.

Templates are downloaded and completed for each construction activity, including JHA – then uploaded.

Required attachments must be provided i.e. MPT plans, protective system drawings.













CONSTRUCTION SAFETY PRE-CONSTRUCTION PACKAGE

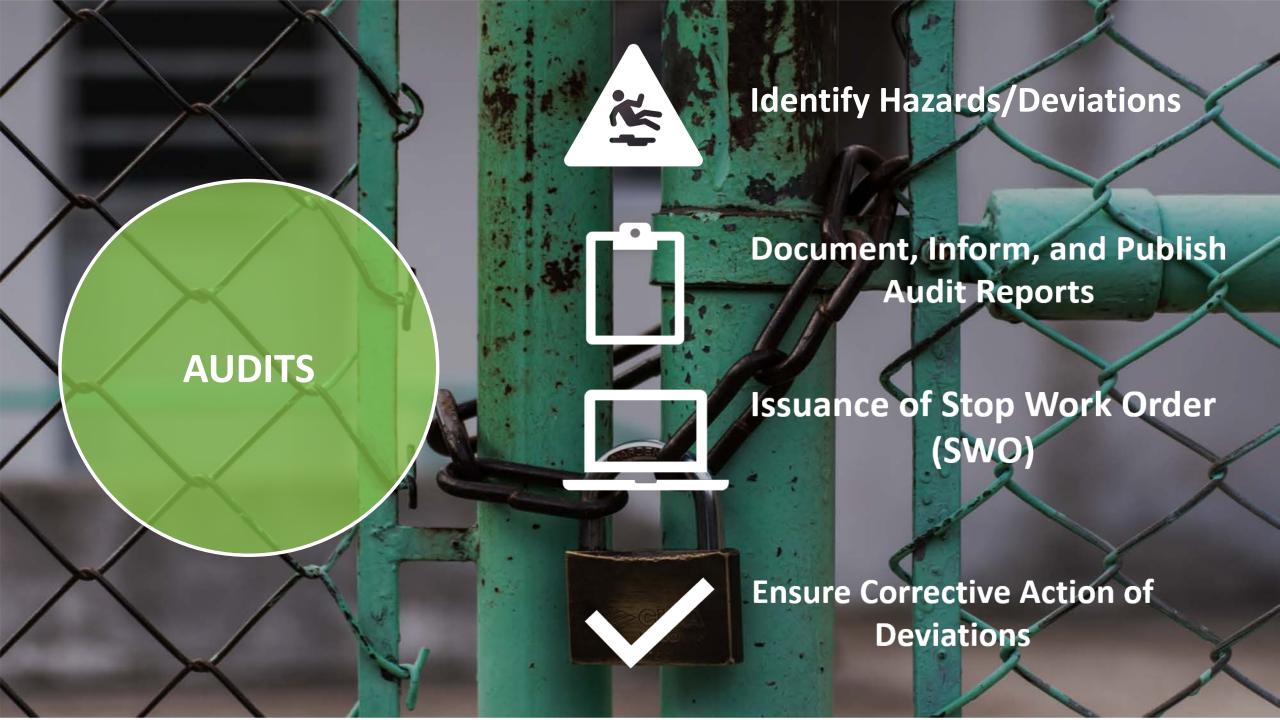
- Contract Safety Requirements
- DDC Accident/Incident Notification & Response Procedure
- Site Safety Plan Submittal Process
- Safety Advisories





Quality Assurance Pre-Construction Package

- Vendor Approval Data Sheet
- Data Sheets for Material Testing (Concrete, Asphalt, etc.)
- Substantial Completion Sign-off Form



TOP SAFETY DEVIATIONS CATEGORIES FOR FY 2018 & 2019







NYC	Department of Design and Construction	
DOC	Construction	

	Support Division onstruction Safety		Carlos Ortiz, As Andriy Melnyk,	SP, Director CSP, CHST, Deputy Director
			AUDIT DATE:	*
30-30 Thomson Avenue Long Island City, New York 11101 Tell. 718 391-2311; 1284				AM/PM
ax. 718 391-2			Page of	-
	FIELE	EXIT CONFERENCE	REPORT	
udit Type:	Safety Field Safety Re	ecord Review Pre-C	onstruction Meetin	g Special
roject ID:		Location(s):		
	nce Held: Y/N (Circle one)		r:	
he above facili ISK LEVEL - L	ty was visited today, and the followi OW (L), MEDIUM (M), HIGH (H)	ng is brought to your attention:		
DEVIATION #		ONSTRUCTION SAFETY OF DEFICIENCIES	RISK LEVEL	RE/CPM/EIC RESPONSE
	-			
paration of th	nat the final on-site inspection rep e final report, a thorough review of iminary report is inappropriate.	ort will reflect the deficiencies r checklist and specifications may	uncover additional de	it Conterence report. However, ficiencies or indicate that a defi
eceived by: I	RE/EIC/PM/Inspector Name (Prin	nt)		
E/EIC/PM/Ins	spector Title (Print)			
				Date



















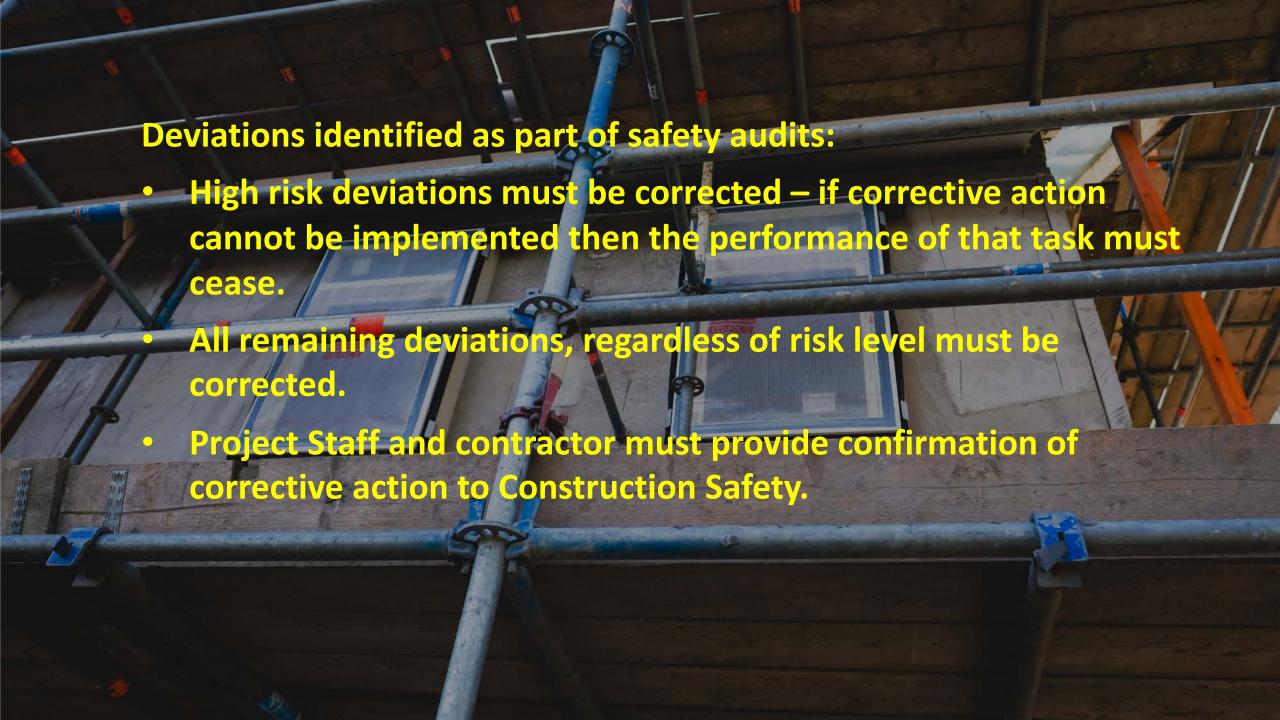






Examples of when a Stop Work Order (SWO) may be issued:

- Working in a confined space without a program in place
- Working in a trench without an approved protective system, when required
- Working in an area or at a height without an acceptable fall protective system in place



PUBLIC SAFETY



Ensure construction activity does not adversely affect the health and safety of the public.



Provide un-obstructed and safe walkway for <u>ALL</u> pedestrians.



Ensure work areas, equipment, and debris are secured by appropriate means.



Provide trained employees at hazardous locations to ensure public safety.



Ensure open holes, excavations, and trenches are secured to prevent unauthorized access by steel plating or covered.



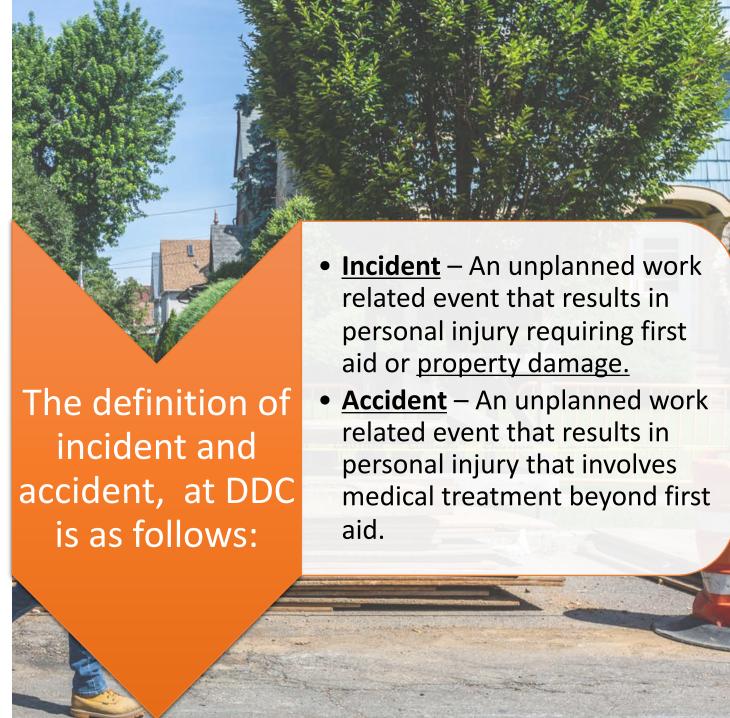
Ensure work site is maintained and kept free of debris – site housekeeping.





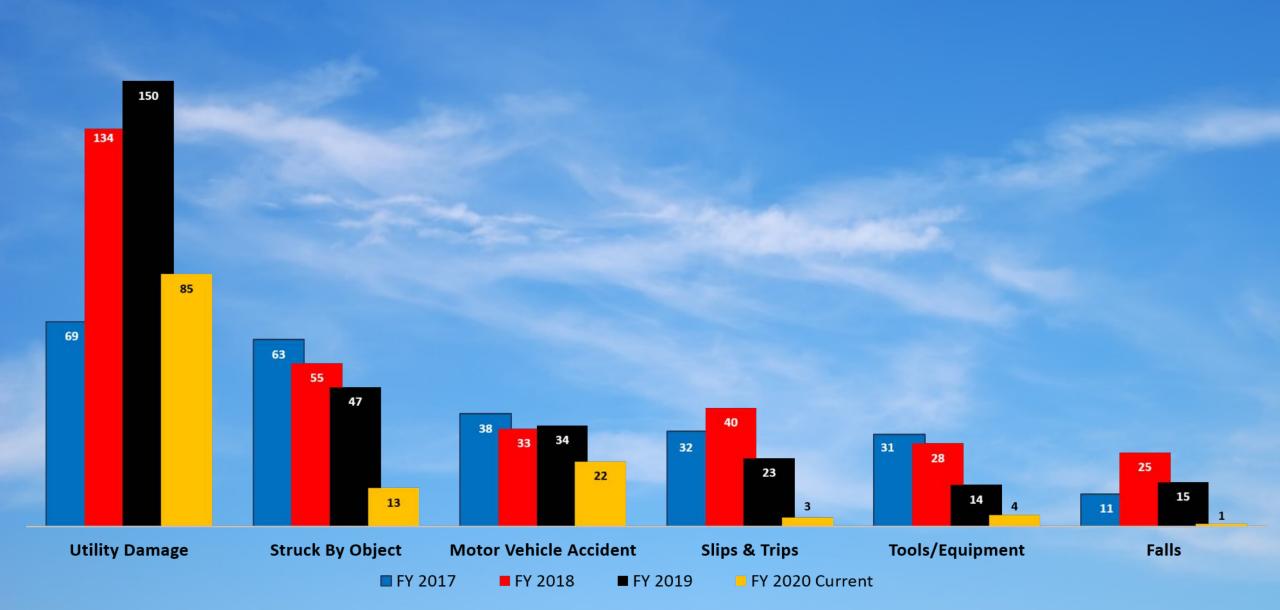


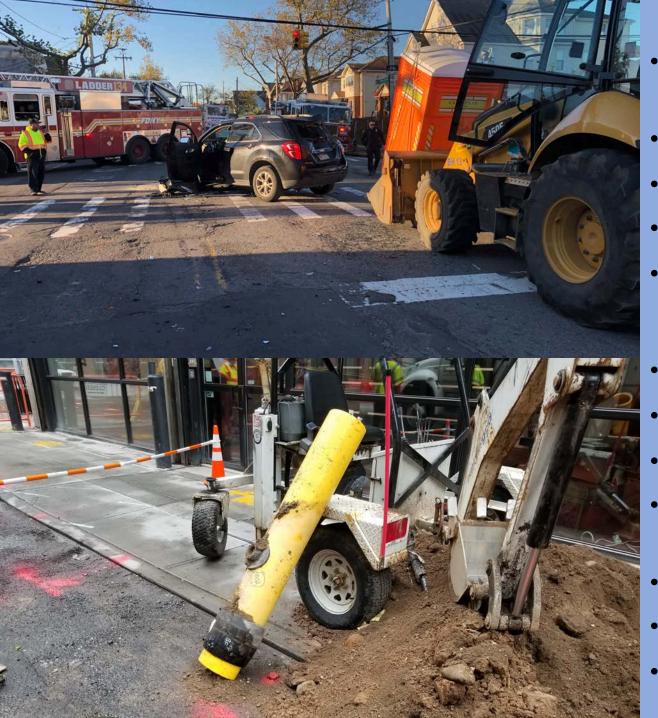




ACCIDENTS AND INCIDENTS

LEADING CAUSES





Preventive Measures - MVAs

- Ensure approved MPT is set-up and addresses
 vehicular and pedestrian patterns and safety
- Provide flaggers at entry/exit points of work zone
- Perform Circle-of-Safety prior to entering vehicle
- Provide spotter to guide/direct vehicle operator
- Ensure that operators view is not obstructed

Preventive Measures - Utility Damages

- Notify 811 NYC One Call
- Wait the required time
- Positive response from affected utilities
- Respect the marks <u>NO</u> powered or mechanized equipment within the Tolerance Zone
- Conduct a walk through prior to excavation activities
- Provide a spotter where overhead utilities are located
- Support and protect exposed utilities within the trench





HAND AND POWER TOOLS

Statistics compiled by the Bureau of Labor Statistics indicate that approximately 10% of accidents to construction workers involve hand or power tools. Recently, a contractor's worker was seriously injured on an DDC project while cutting a 36" trunk main pipe with a handheld power cutting machine. Workers must receive general safety awareness training to recognize and avoid unsafe conditions.

Warning! STIHL Cut-Off Machines: Never Cut Wood of Any Type. Never Use Carbide-Tipped, Wood Cutting or Circular Saw Blades on Cut-Off Machines. <u>They Can Cause Severe Personal Injury or Death from Reactive Forces</u>, Blade Contact or Thrown Tips.

Warning! Husqvarna Hand-Held Power Cutter Machines: Kickbacks are sudden and can be very violent. The power cutter can be thrown up and back towards the user in a rotating motion causing serious or even fatal injury. It is vital to understand what causes kickback and how to avoid it before using the machine. Check that the guard over the cutting blade is not cracked or damaged in any other way. Replace when damaged. Check that the cutting blade is fitted correctly and does not show signs of damage. A damaged cutting blade can cause personal injury. Never use a cutting blade for any other materials than what it was intended for. Be alert for potential movement of the work piece. If the work piece is not properly supported and shifts as you cut, it might pinch the blade and cause a kick back.

Such accidents are easily preventable by following safe tool work practices. The Occupational Safety & Health Administration (OSHA) has rules for safe tool use. These rules can be found at 29 CFR Part 1926 Subpart I.

Below are general safety recommendations:

1. Are tools in good condition? Look for:

- · Damage or defects, such as cracked or split handles or wrenches with jaws that are sprung
- Guards in place. Guards that are installed on tools must be kept in operating condition and are not to be removed or disabled:
- Power cords that are not frayed, taped or damaged;
- · Compressed air hoses have the correct size fittings and are not damaged or defective;
- On / off switches are operable and not taped or held down;
- Blades or bits that are sharp and without defect

2. Are tools being used for the purposes for which they are intended? Look for:

- Screw drivers used as chisels or pry bars;
- · Tools being lifted or carried by the power cord;
- Incorrect saws, size blades or bits being used;
- Compressed air hoses used to "blow-off" dust from worker's clothing;
- Power tools not connected to a Ground Fault Circuit Interrupter (GFCI).

3. Are contractor's workers provided and using personal protective equipment (PPE)? Look for:

- PPE that meets American National Standards Institute (ANSI) standards (they will have a tag or stamp indicating they meet ANSI Standards);
- · Use of goggles and face shields when there are flying particles or splashing liquids;
- · Use of respirators if there are harmful dusts, fumes, mists, vapors, or gases;
- . Use of hearing protection when operating power tools, especially pneumatic tools like jackhammers.
- 4. OSHA rules require that training be provided for workers using certain types of tools, such as:
 - Powder actuated tools (e.g.; Hilti guns);
 - Welding and cutting equipment.

5. A fully developed Job Hazard Analysis (JHA), which:

 Identifies the hazards and control methods associated with a given task and employees must have been trained on the JHA to recognize and avoid unsafe conditions.

THINK SAFETY!



Utility Damage Protocol

Safety Precautions In the Event of Damage to a Natural Gas Facility

The safety of DDC project personnel, contractors, and the public is paramount at all DDC construction projects. Damage to a natural gas facility can result in a leak, ignition, fire, or explosion, and the consequences to life and property can be devastating. Below are actions that should be taken by Project Staff when damage to a natural gas facility occurs:

- Immediately cease excavation activity.
- If the damage results in a release of natural gas, take steps to evacuate workers form the area and eliminate source(s) of ignition.
- . DO NOT allow anyone to attempt a repair or stop the leak.
- DO NOT cover the damaged natural gas facility with dirt to try to stop the leak.
- Move to a safe distance and Call 911.
- Notify the affected natural gas utility company.
- · Call 811 (New York Dig Safely).
- · Secure the area to prevent access.
- . If there is a natural gas fire DO NOT attempt to extinguish.
- If an evacuation of a residential premise is warranted it should be performed by first responders (FDNY, Utility Personnel, etc.). - DO NOT RING DOOR BELLS, they are a source of ignition.
- Implement the DDC Construction Accident Incident Notification and Response Procedure.

These steps should be followed even if there is no release of natural gas or apparent damage. **DO NOT** assume that damage occurs only at the point of contact and be aware that natural gas can migrate underground creating a potential hazard elsewhere.

RevNum: 1; January 25, 2019 September 25, 2019



Required under the DDC Contract Safety Requirements the contractor shall:



Provide immediate notification of project-related accidents and incidents.



Preserve scene/tools/equipment involved in accident or incident.

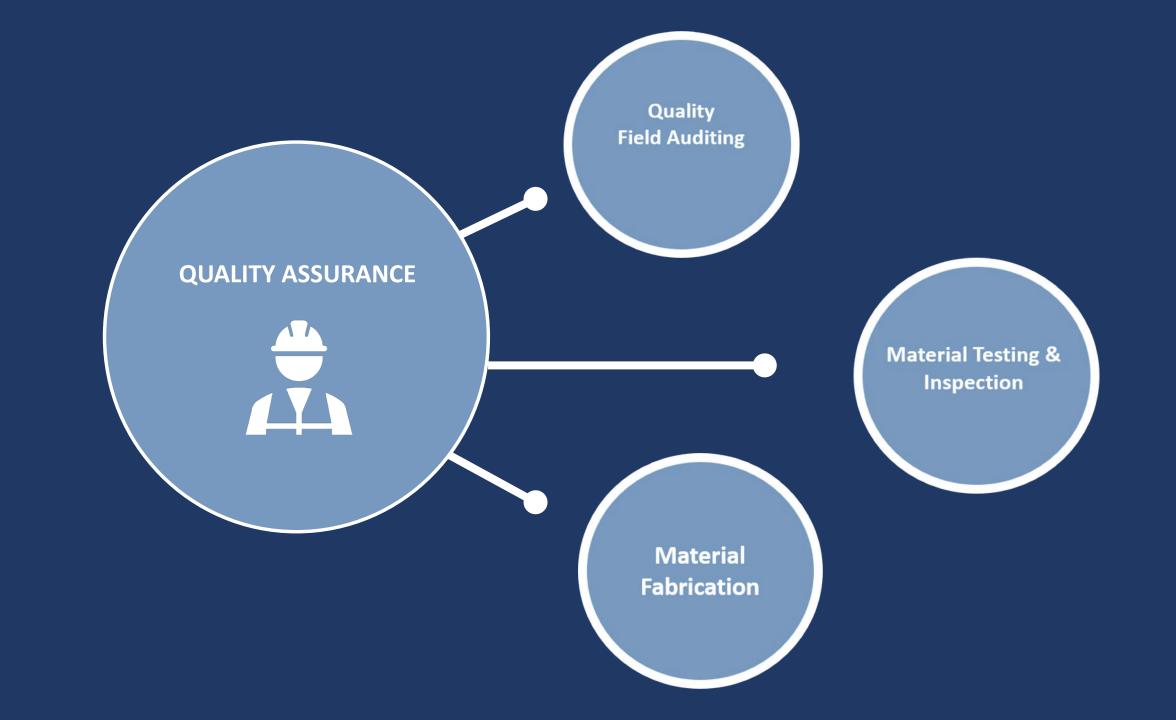


Conduct accident and incident investigations and document findings for DDC review.



Use accident and incident investigation findings as "Lessons Learned."













Local Law 196

IMPORTANT DATES

- **BY DECEMBER 1, 2019** All construction site workers must obtain:
 - Limited SST Card or
 - SST Card

In addition, Site Safety
Manager, Site Safety
Coordinator, Concrete Safety
Manager, Construction
Superintendent, and
Competent Person must
possess Supervisor Site Safety
Training Card.

- BY SEPTEMBER 1, 2020 –
 Workers not permitted on site unless they have minimum 40 hrs. training.
- BY OCTOBER 14, 2019 All GCs must post signs at construction sites where SST is required.



DEFINITIONS

- Limited SST Card:
 - OSHA 30 hrs.
 - OSHA 10 + 20 hrs. of SST credits
- SST Card:
 - OSHA 10 + 30 45 hrs. of SST credits
 - OSHA 30 + 10 25 hrs. of SST credits
 - 100 hrs. training program
- SST Supervisor Card:
 - OSHA 30 + 32 hrs. SST credits



New York State 16 NYCRR 753 Protection of Underground Facilities

- NYS Code Rule 753 was amended to require any municipality or operator, that engages in excavation work, to mandate its excavator operators to complete a **training and education program** offered by their local New York 811 One Call Notification Center (law effective May 4, 2019).
- Any contractor engaged in excavation related work on DDC Projects must comply with the law. Contractors must ensure excavator operators are properly trained, and retain documentation to demonstrate completion of training.
- ➤ Refresher training and education shall be required <u>at least every</u> <u>five years</u>.
- ➤ Completing the New York 811 Excavator Training and Education Program will constitute compliance with the law (became available December 1, 2018).

Closing Remarks and Questions

