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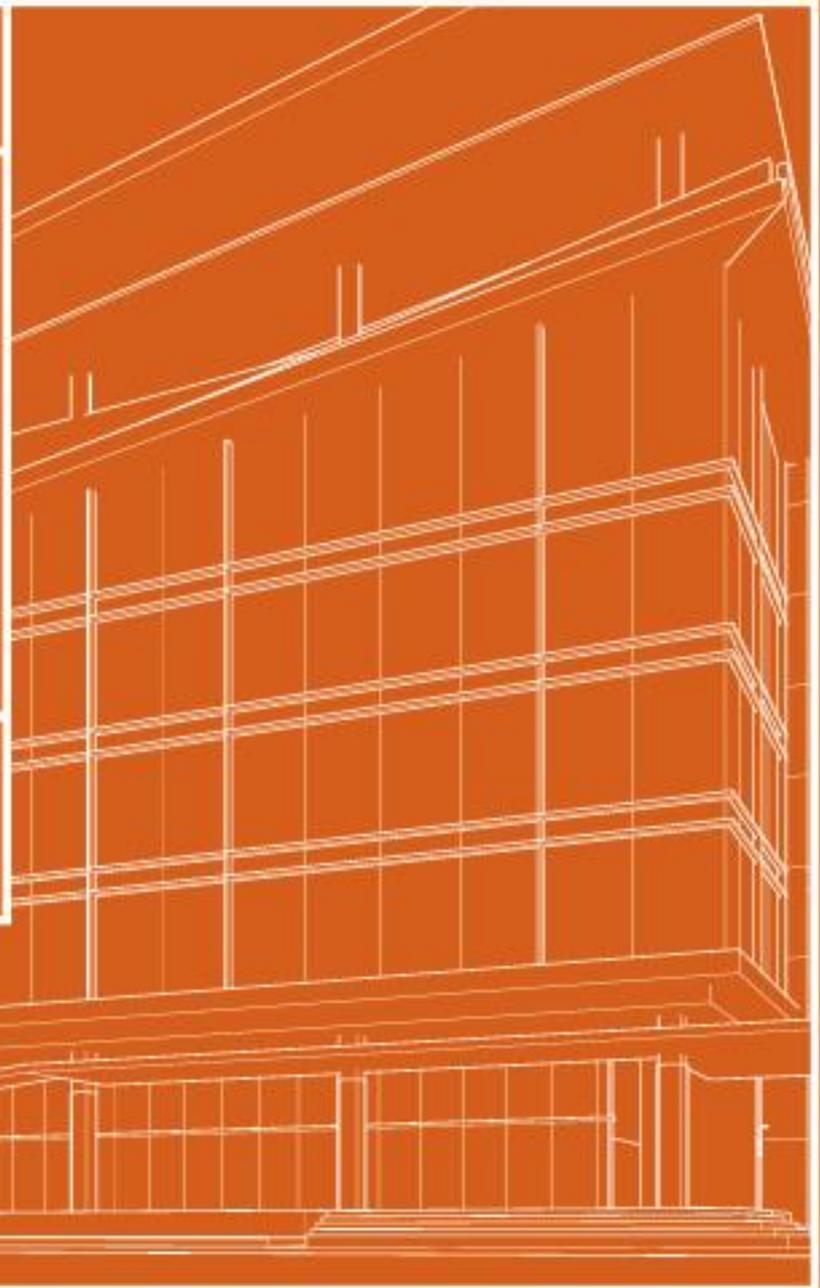


**Construction Safety:
Review and Analysis CY2016 &
Changes in Construction Rules**
Course Number SW0217

Timothy E. Hogan | Robert D'Alessio

May 3, 2017

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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.



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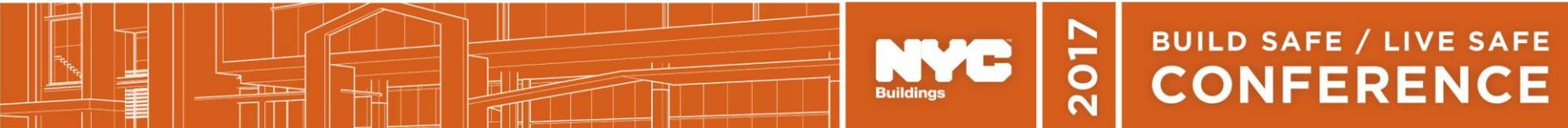
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COURSE DESCRIPTION

This course will provide an overview of NYC construction incidents, accidents, injuries, and fatalities that occurred during calendar year 2016 and discuss the trends that these statistics reveal. This course will provide exegesis of construction fatalities, emphasizing root causes and preventive measures.

Lastly this course will discuss NYC Building Code requirements pertaining to the qualifications, and duties of Licensed Site Safety Managers, Site Safety Coordinators, and Registered Construction Superintendents (safety persons).



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LEARNING OBJECTIVES

At the end of the this course, participants will be able to:

1. Participants will examine construction incident data; discuss their root causes and preventive measures.
2. Participants will discuss be able to identify conditions that pose potential risks to the public and to workers during construction and demolition.
3. Participants will review changes in construction rules and discuss how these changes will affect the safety and welfare of workers and the public.
4. Participants will discuss the duties and responsibilities of site safety managers, site safety coordinators and construction superintendents in mitigating hazards and maintaining a safe work site.



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CONSTRUCTION SAFETY: REVIEW AND ANALYSIS CY2016

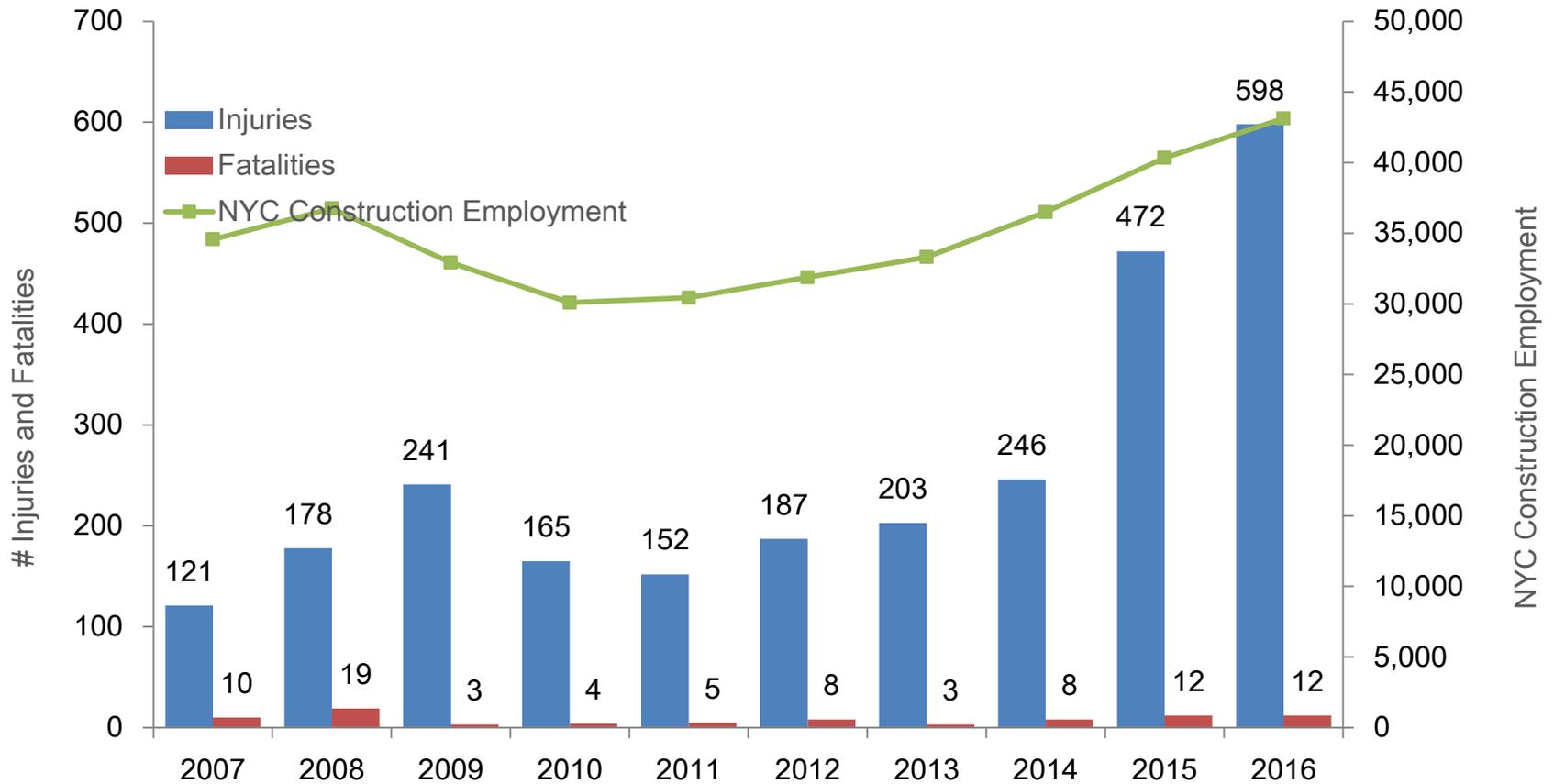


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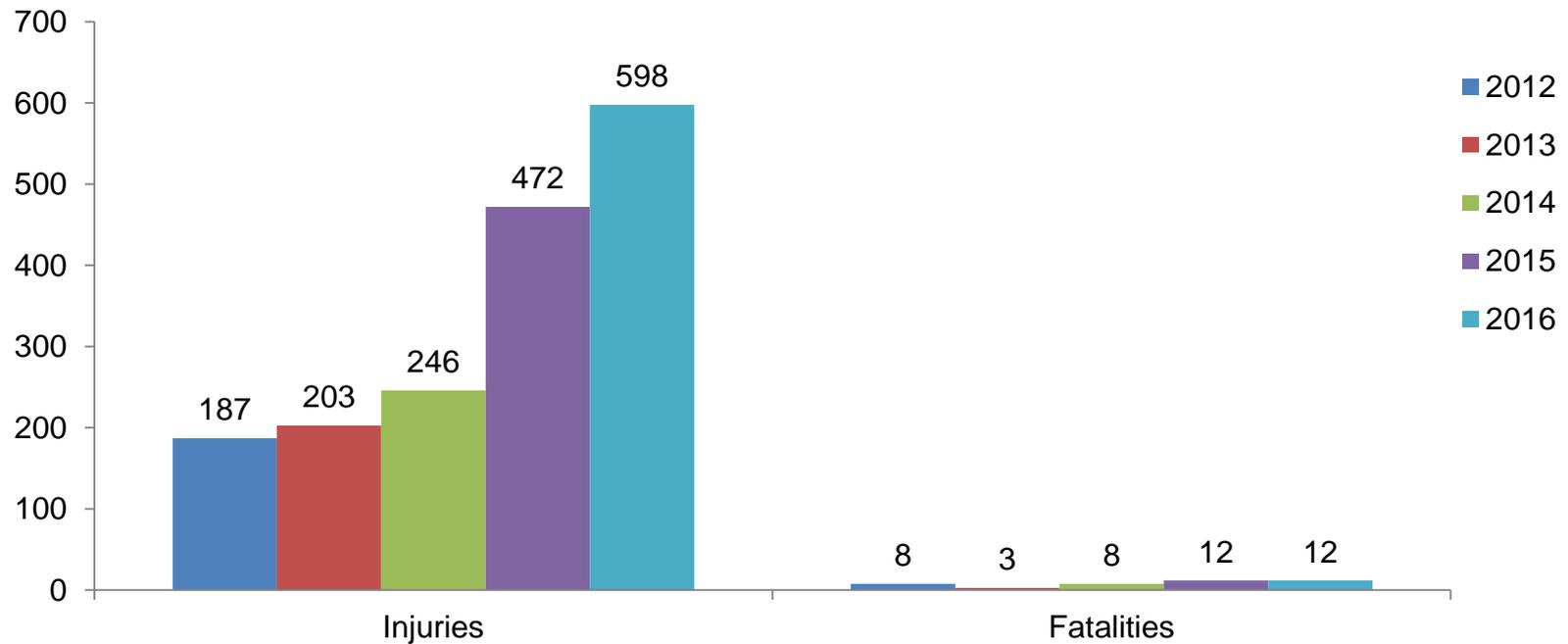
ANNUAL CONSTRUCTION-RELATED INJURIES & FATALITIES VS. AVERAGE NYC CONSTRUCTION EMPLOYMENT



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ANNUAL CONSTRUCTION-RELATED INJURIES AND FATALITIES

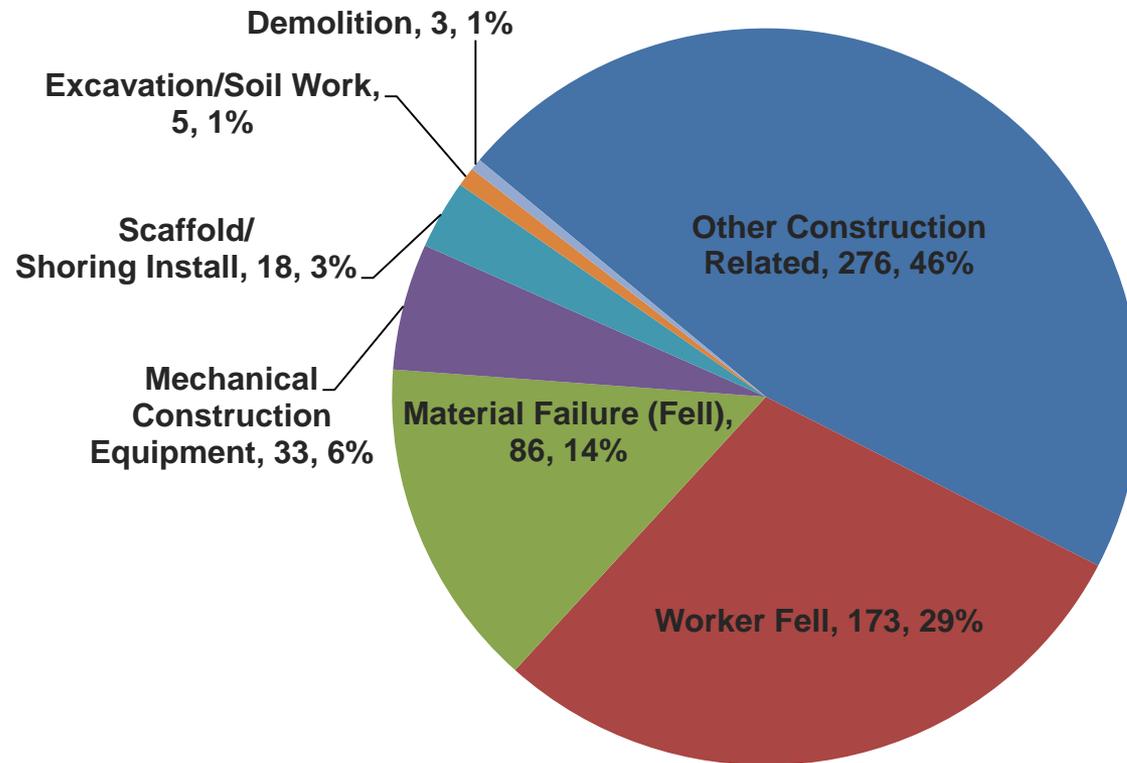


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2016 CONSTRUCTION ACCIDENTS BY CAUSE



2016 Other Construction Related Accidents increased 52% compared to 2015.



2016 CONSTRUCTION RELATED FATALITIES

- Worker Fell (6)
- Material Failure/Fell (3)
- Mechanical Construction Equipment (3)



WORKER FALL: CONTRIBUTING FACTORS

WORKER-RELATED ERROR

- Not wearing or improper use of fall protections
- Distracted

CONTRACTOR-RELATED ERROR

- Improper or no pre-task planning
- Lack of, or inadequate temporary protection
- Inadequate or improper tools for the task
- Shortcuts/unsafe work practices



MECHANICAL CONSTRUCTION EQUIPMENT

WORKER-RELATED ERROR

- Bypassed safety devices
- Careless operation
- Failure to heed warnings

CONTRACTOR-RELATED ERROR

- Providing improper equipment for task
- Failure to provide oversight
- Improper rigging



MATERIAL FAILURE/FELL: CONTRIBUTING FACTORS

WORKER ERROR

- Distracted from task
- Carelessness
- Taking shortcuts

CONTRACTOR ERROR

- Poor housekeeping
- Lack of or inadequate temporary protection
- Inadequate supervision
- Shortcuts/Unsafe work practices



WORKER FELL: DRAIN PIPE INSTALLATION



MECHANICAL CONSTRUCTION EQUIPMENT FAILURE: CRANE COLLAPSE



MATERIAL FELL: OVERLOAD OF SHAFT PROTECTION

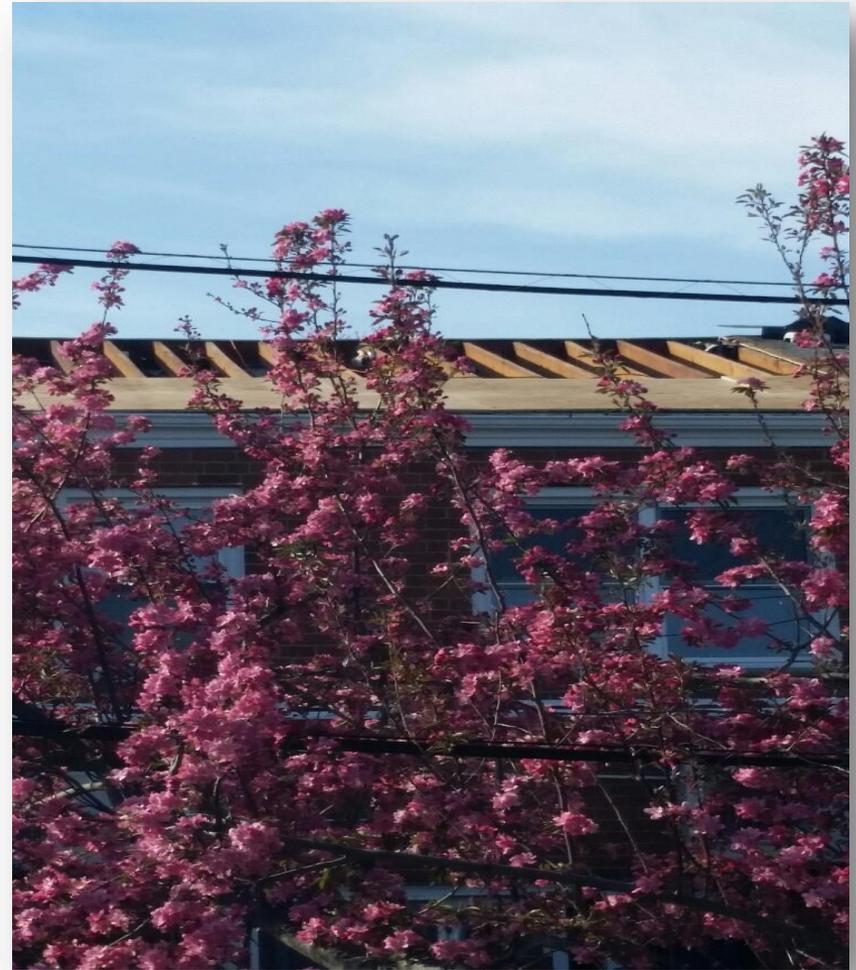


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WORKER FELL: ROOF REPAIR



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MATERIAL FELL: SCAFFOLD REMOVAL



MATERIAL FELL: IMPROPER DEBRIS DISPOSAL



WORKER FELL: FAILURE TO TIE-OFF



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MECHANICAL CONSTRUCTION EQUIPMENT FAILURE: BYPASS SAFETY



MECHANICAL CONSTRUCTION EQUIPMENT FAILURE & WORKER FELL: OVERLOAD NON-CERTIFIED CHOKER



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WORKER FELL: FAILURE TO TIE OFF



WORKER FELL: FAILURE TO REMAIN TIED-OFF



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CONSTRUCTION SAFETY: CHANGES IN CONSTRUCTION RULES



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CONSTRUCTION SAFETY PROFESSIONALS

In this part of the presentation there will be information on the roles, responsibilities, qualifications and requirements for construction safety professionals in New York City – specifically Licensed Site Safety Managers (SSM), Licensed Site Safety Coordinators (SSC) and Registered Construction Superintendents (CS).



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MAJOR BUILDING DEFINED

BC 3302.1

- An existing or proposed building 10 stories/125 feet or more in height; **OR**
- An existing or proposed building with a building footprint of 100,000 square feet or more, regardless of height; **OR**
- An existing or proposed building so designated by the commissioner due to unique hazards associated with the construction or demolition of the structure.



SITE SAFETY PLAN REQUIRED

BC 3310.3

No permit shall be issued for the type of work listed in Section 3310.1 until a site safety plan that meets the requirements of Article 110 of Chapter 1 of Title 28 of the Administrative Code has been approved by the department.

AC 28-105.12.8

Where required by this code or by the department, applications shall include a site safety plan approved in accordance with the New York City building code. All work shall adhere to the site safety plan.



SITE SAFETY MONITORING PROGRAM

BC 3310.4

For a project that requires a site safety plan, the general contractor shall enact and maintain a site safety monitoring program to implement such site safety plan. The **Site Safety Monitoring Program** shall, at a minimum, comply with Sections 3310.5 through 3310.10.



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WHEN IS A SITE SAFETY PLAN REQUIRED?

BC 3310.1

1. The construction of a new major building;
2. The vertical or horizontal enlargement of a major building;
3. The full or partial demolition of a major building;
4. The alteration, maintenance, or repair of a façade of a major building, provided the building is more than 14 stories or 200 feet (60 960 mm) in height and also provided the façade work requires a sidewalk shed to be installed; and



WHEN IS A SITE SAFETY PLAN REQUIRED?

BC 3310.1 (continued)

5. Any construction or demolition work, including the alteration, maintenance, or repair of a façade, in a building so designated by the commissioner.

Exception: The requirements of this section shall not apply to partial demolition operations limited to the interior components of a major building provided no mechanical demolition equipment, other than handheld devices, are used.



BUILDINGS ENFORCEMENT SAFETY TEAM REVIEW OF SITE SAFETY PLAN REQUIRED

Buildings Enforcement Safety Team (BEST) **must** review and approve all Site Safety Plans, when a Site Safety Plan is required by the Code.

Exception: Applicants have the option of professionally certifying the Site Safety Plans for typical façade renovations, in accordance with DOB Industry Notice published July 2015.



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SITE SAFETY PLAN: MINIMUM CONTENT AND PHASED SUBMISSION

AC 28-110.1

- 28-110.1 Site safety plan. Where a site safety plan is required by chapter 33 of the New York City building code, such plan shall include the following

AC 28-110.2

- 28-110.2 Phased site safety plans. Multiple layouts of the site safety features enumerated in Section 28-110.1 may be submitted at any time during construction operations to show phased site safety designs consistent with the phase of anticipated work.



WHEN IS SITE SAFETY MANAGER REQUIRED?

BC 3310.5

- 3310.5 Site safety manager or coordinator to be designated. One or more site safety managers shall be designated, as necessary, to ensure compliance with the site safety plan and all site safety requirements as specified in this chapter. Such site safety manager or managers shall be designated by the owner, agent, construction manager, or general contractor. All such entities shall agree to designate one such site safety manager as the primary site safety manager, or where there is only one site safety manager, such manager shall automatically be designated as the primary site safety manager. Such site safety manager(s) shall be certified by the department in accordance with Article 402 of Chapter 4 of Title 28 of the Administrative Code.



WHEN IS A SITE SAFETY COORDINATOR REQUIRED?

BC 3310.5

Exception: Allows a SSC to be designated in lieu of a SSM in following situations:

1. Structure is less than 15 stories or 200 feet (60 960 mm) in height; and
2. Structure has a building footprint of 100,000 square feet (30 480 m²) or less.



SSM-SSC PRESENCE ON SITE?

BC 3310.5.2

- 3310.5.2 Presence at the site. For the construction or alteration of a building, the primary site safety manager or coordinator shall be present at the site during all times while active work is occurring and through all phases of work, beginning with excavation and continuing until the building is enclosed and the sidewalk shed removed.
- For the demolition of a building, the primary site safety manager or coordinator shall be present at the site during all times while active work is occurring and through all phases of work, beginning with the removal of any glass, asbestos, or façade and, for a full demolition, continuing until the site has been backfilled to grade, or for a partial demolition until the building is enclosed and the sidewalk shed removed.



WHEN IS SSM/SSC PRESENCE *NOT* REQUIRED?

BC 3310.5.2

Exception 1

- 1.1 Surveying that does not involve the disturbance of material, structure, or earth;
- 1.2 Use of a hoist to transport personnel only;
- 1.3 Use of a material hoist that is fully enclosed within the perimeter of the building;
- 1.4 Finish troweling of concrete floors;
- 1.5 When personnel are provided for temporary heat, light, or water;
- 1.6 Truck deliveries to the site where the sidewalk is closed and the entrance gate is within that closed sidewalk area.



PART TIME SSM ON 'TYPICAL' FAÇADE REHAB ALLOWED?

BC 3310.5.2

Exception 2

Subject to the approval of the commissioner, the requirement for a site safety manager, or where a site safety coordinator is authorized by this code, a site safety coordinator, may be waived entirely, or reduced to a part time basis with such part time basis determined by the commissioner, in accordance with Section 3310.11.



DEFINITION OF TYPICAL FAÇADE JOB

1 RCNY 3310-01

- Façade work (façade project). The restoration of an existing façade to a safe and like new condition following decay, wear, or damage; the modification of an existing façade; or the recladding of a façade.
- Façade recladding (recladding of a façade). The removal of the exterior building envelope and replacement with a new exterior building envelope; or the installation of a new exterior building envelope over the existing façade.



WHEN DOES SSM NEED TO BE ON SITE FOR TYPICAL FAÇADE JOBS?

1RCNY 3310-01 D

1. The site safety manager visit the site after required sidewalk sheds, fences, pedestrian protection, and roof and adjoining property protection have been installed, but prior to the commencement of the project.
2. The site safety manager must be present while the following work is performed:
 - A. Supported scaffold installation or removal, but not including the relocation of existing deck planking or guardrails to a different level of the scaffold provided any such relocation is designated on the scaffold design documents;
 - B. Mast climber installation or removal; or
 - C. Other work as directed by the commissioner.



WHEN DOES SSM NEED TO BE ON SITE FOR TYPICAL FAÇADE JOBS?

1RCNY 3310-01 D (continued)

3. The site safety manager must visit the site within 24-hours of the issuance of a hazardous violation by the department.
4. The site safety manager must be present when the following rigging work is performed, and such rigging work is not performed by or under the direct and continuing supervision of a licensed rigger:
 - A. Suspended scaffold installation or removal;
 - B. Suspended scaffold use; or
 - C. Hoisting machine installation/assembly/erection, climbing/jumping, removal/disassembly, or a relocation requiring modifications to tie-backs, counterweights, or connections to the base building/structure.



WHEN SSM IS NOT ON SITE, WHO NEEDS TO BE ON SITE?

1RCNY 3310-01 E

For a project that is limited in scope to façade work, and which does not constitute façade recladding, a qualified person, who meets the requirements of paragraphs (2) and (3) of this subdivision, must be present at the site during all times active work is occurring, continuing through all phases of work, beginning with the installation of the sidewalk shed and continuing until the building is enclosed and the sidewalk shed is removed.



DESIGNATION OF QPSS

1 RCNY 3310-01 E(2)

The designation of one or more individuals to serve as a qualified person pursuant to this subdivision must be evidenced by a written letter, signed and dated by the permit holder. Such letter must, at a minimum, contain the name and contact information for each designated individual. Such letter must be kept on site and be available for inspection by the commissioner upon request.



QPSS Qualifications?

1 RCNY 3310-01 E (3)

QPSS **must** meet following qualifications (as of 7/1/16):

1. Completed the orientation and training required by Section 3310.10 of the Building Code;
2. Completed a department approved site safety manager training course that is least 40 hours in length, and every three years thereafter, complete a department approved site safety manager refresher course that is at least 7 hours in length;
3. Completed the training required by Section 3314.4.5.1 of the building code for supported scaffold installers;



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QPSS Qualifications?

1 RCNY 3310-01 E (3) (continued)

QPSS **must** meet following qualifications:

4. Completed the training required by Section 3314.4.5.3 of the building code for suspended scaffold supervisors;
5. Completed a course that is at least 30 hours in length and approved by the United States Department of Labor Occupational Safety and Health Administration (OSHA) in construction industry safety and health; and
6. If the qualified person is not a licensed rigger or a rigging foreman, be approved by the primary site safety manager.



HOW DO I OBTAIN A SSM-SSC LICENSE?

Article 402/403 of Chapter 4 of title 28 and 1 RCNY 104-08

- Article 402: SITE SAFETY MANAGER CERTIFICATE
- Article 403: SITE SAFETY COORDINATOR CERTIFICATE
- 1-RCNY 104-08:Qualifications for site safety manager and site safety coordinator certificates.



GENERAL DUTIES OF SSM-SSC

BC 3310.8

- 3310.8 Site safety manager's and coordinator's duties. The site safety manager or coordinator shall monitor compliance with the safety requirements of this chapter by performing the duties required by Sections 3310.8.1 through 3310.8.6 and by performing all other safety duties assigned by the owner or general contractor to meet legal requirements.
- 3310.8.1 Meetings. The site safety manager or coordinator shall, at a minimum, meet on a weekly basis with the designated representative of each subcontractor to ascertain that all subcontractors are complying with the applicable provisions of this chapter.



GENERAL DUTIES OF SSM-SSC

BC 3310.8 (continued)

- 3310.8.2 Notification of violations. In the event the site safety manager or coordinator discovers violation of this chapter, he or she shall immediately notify the person or persons responsible for creating the violation, whether these persons are employed by the general contractor or by subcontractors. If the site safety manager or coordinator is unable to obtain the cooperation of these persons in correcting the violation, he or she shall immediately inform the direct supervisor of the person or company responsible for creating the violation and request that the supervisor order the necessary corrective action. If such supervisor is not present at the site or is otherwise unavailable, the site safety manager or coordinator shall notify any other supervisory personnel of the permit holder or any other responsible manager or officer of the permit holder. All such violations and corrective work shall be recorded in the daily log.



GENERAL DUTIES OF SSM-SSC

BC 3310.8 (continued)

- 3310.8.3 Inspections. It shall be the responsibility of the site safety manager or coordinator to inspect personally, on a regular basis throughout the day while active work is occurring, the site to ensure compliance with the requirements of this chapter. At a minimum, inspections shall consist of those prescribed in rules promulgated by the commissioner, with such inspections performed personally by an individual certified by Chapter 4 of Title 28 of the Administrative Code as a site safety manager or coordinator.
- 3310.8.6 Reasonable prudence. In addition to the above requirements, the site safety manager or coordinator shall use reasonable prudence to ensure that safety is maintained at the site as job conditions dictate.



GENERAL DUTIES OF SSM-SSC

BC 3310.8 (continued)

- 3310.8.3.1 Site Safety manager or coordinator standpipe inspection responsibilities. The site safety manager or coordinator shall, at a minimum, in accordance with rules promulgated by the department, conduct daily checks to ensure that a standpipe system is available and in a state of readiness at all times for use by firefighting personnel, by verifying:
 1. That valves are in place at each story below the construction floor;
 2. That standpipes are connected to a water source or fire department connection; and
 3. That fire department hose connections are free from obstruction and are marked by a red light and sign that reads, “Standpipe Connection.”



GENERAL DUTIES OF SSM-SSC

BC 3310.8 (continued)

- 3310.8.3.1.1 Weekly checks. The site manager or coordinator shall also, in accordance with such rules, conduct weekly checks to verify that no breach exists by visually tracing the standpipe, including risers, cross brace sections and fire department connections.



RECORD OF INSPECTIONS/LOGS

BC 3310.8.3.1.2

Record of inspections. A record of all such inspections shall be maintained by such site safety manager or coordinator in the site safety log.

BC 3310.8.4

Site safety log. A site safety log shall be maintained and kept at the site. The log, or where there is more than one log, the logs in total, shall, at a minimum, contain the following information:



MINIMUM CONTENT OF LOGS

BC 3310.8.4

1. Date and location of inspections performed in accordance with Section 3310.8.3;
2. Date and names of individuals met with to satisfy the requirements of Section 3310.8.1;
3. Any unsafe acts and/or conditions, and dates and locations of said unsafe acts and/or conditions;
4. Companies and representatives notified of unsafe acts and/or conditions;
5. Dates of notification of unsafe acts and/or conditions;
6. Dates of correction of unsafe acts and/or conditions and nature of correction;



MINIMUM CONTENT OF LOGS

BC 3310.8.4 (continued)

7. Any accident as defined by this chapter;
8. Any violations, stop work orders, or summonses issued by the department, including date issued and date lifted or dismissed;
9. Dates and location where horizontal and vertical safety netting have been installed, replaced and/or repaired;
10. Date horizontal safety netting is removed; and
11. Date when building reaches a height of 75 feet (22 860 mm).



NOTIFICATION OF CERTAIN CONDITIONS

BC 3310.8.2.1

- 3310.8.2.1 Notification of conditions to the department. The site safety manager or coordinator shall immediately notify the department directly if he or she discovers any of the following conditions in the routine performance of the job:
- 3310.8.2.1.1 Responsibility. Upon proper notification to the department of the existence of any of the above-noted circumstances, any responsibility the site safety manager or coordinator has under this code arising out of, relating to, or as a result of the existence of that circumstance, shall cease.



NOTIFICATION OF CERTAIN CONDITIONS

BC 3310.8.2.1 (continued)

1. A person is operating a crane, derrick or hoisting equipment on the site without a permit and refuses to desist from operating the equipment;
2. A crane is being operated by an unlicensed operator and such unlicensed operator refuses to desist from operating the crane;
3. No flag person is present during crane operation where required by this chapter;
4. Sidewalk sheds required by the site safety plan are not in place during construction or demolition activity;
5. Permits have not been issued for the sidewalk sheds;
6. The designer and/or supplier of sidewalk sheds has not certified that the sheds have been erected in accordance with the approved drawings;
7. Any accident as defined by this chapter;
8. Required standpipe is not in place at each story below the construction or demolition floor;



NOTIFICATION OF CERTAIN CONDITIONS

BC 3310.8.2.1 (continued)

9. Required standpipe valves are not in place at each story below the construction or demolition floor;
10. Required standpipe is not capped;
11. Required standpipe is not connected to a water source or fire department connection;
12. Required standpipe fire department hose connection is obstructed;
13. Required standpipe fire department hose connections are not marked by a red light and a sign reading, **Standpipe Connection**;
14. A breach exists in the required standpipe risers, cross connections, or department connections;
15. The standpipe alarm activities; or
16. When a building over 75 feet (22.86m) is being constructed or demolished and at least one elevator in a state of readiness or one hoist is not available for Fire Department access per Section 3303.12.



SPECIFIC DUTIES OF A SSM-SSC

RCNY 3310-01

- TABLE 1 General inspections
- TABLE 2 Safety netting inspections
- TABLE 3 Maintenance of site and adjacent area inspections
- TABLE 4 Housekeeping inspections
- TABLE 5 Removal and storage of material inspections
- TABLE 6 Protection of sidewalks inspections
- TABLE 7 Warning signs and lights inspections
- TABLE 8 Scaffolds, structural ramps, runways and platform inspections
- TABLE 9 Material handling and hoisting equipment inspections
- TABLE 10 Façade project inspections



CONSTRUCTION SUPERINTENDENT

BC 3301.3

- 3301.3 Site safety managers, coordinators and superintendent of construction. A site safety manager or site safety coordinator must be designated and present at the construction or demolition of a major building in accordance with Section 3310. A superintendent of construction is required for the construction or demolition of such other buildings as identified pursuant to rules promulgated by the commissioner.

AC 28-101.5

- 28-101.5 SUPERINTENDENT OF CONSTRUCTION (CONSTRUCTION SUPERINTENDENT). An individual, when authorized pursuant to department rules as qualified to superintend permitted construction work on behalf of the owner.



WHAT WORK REQUIRES A REGISTERED CONSTRUCTION SUPERINTENDENT?

RCNY 3301-02

- Full Demolitions (DM) < 10 Stories/125 Feet
- New Buildings (NB) < 10 Stories/125 Feet Excluding 1,2, and 3 Family Dwellings.
- Select Alterations (Details on Following Slide)
- As Designated by Commissioner



WHAT ALTERATION WORK REQUIRES A REGISTERED CONSTRUCTION SUPERINTENDENT?

RCNY 3301-02

- Vertical or Horizontal Enlargements; or
- Alterations/demolitions of more than 50 % of floor area of existing building and requiring structural stability special inspection; or
- Complete removal of one or more floors; or
- Work requiring a special inspection for underpinning or support of excavation (SOE)



WHAT ABOUT ALTERATIONS REQUIRED TO MEET NB REQUIREMENTS?

AC 28-101.4.5

- Alterations required to meet NB requirements pursuant to AC 28-101.4.5 must meet ALL NB requirements, including Chapter 33 requirements related to SSP, SSM-SSC, and Construction Superintendent.



HOW IS 'JOB' DEFINED?

RCNY 3301-02

- **Job.** A design and construction/demolition undertaking consisting of work at one building or structure, as well as related site improvements and work on accessory structures. A job may consist of one or more plan/work applications, and may result in the issuance of one or more permits.
- An individual may only be designated as a primary or alternate construction superintendent for that number of jobs for which he or she can adequately perform all required duties. No individual may be designated as the primary construction superintendent on more than ten (10) jobs.



DUTIES OF A REGISTERED CONSTRUCTION SUPERINTENDENT

RCNY 3301-02

- Visit site at least once each day of active work
- Keep site safe/compliance with Chapter 33 (Safeguards During Construction and Demolition)
- Construction plan conformance
- Verify work is being conducted in accordance with sound construction/demolition practices



DUTIES OF A REGISTERED CONSTRUCTION SUPERINTENDENT

RCNY 3301-02

- Inspect all areas of work
- Ensure correction of unsafe conditions
- Report accidents and damage to adjoining property
- Designate a competent person to be on site at all times and supervise construction
- Keep daily logs of activity on site, in accordance with minimum content requirements



CAN A SSM-SSC SUBSTITUTE FOR A REGISTERED CONSTRUCTION SUPERINTENDENT?

- The duties of a CS and a SSM-SSC are not analogous.
- A SSM-SSC may not substitute for a registered CS.
- Unique Duties of CS:
 - Construction plan conformance
 - Verify work is being conducted in accordance with sound construction/demolition practices
 - Inspect all areas of work
 - Ensure correction of unsafe conditions
 - Designate a competent person to be on site at all times and supervise construction



DESIGNATION OF A COMPETENT PERSON

RCNY 3301-02

- Competent person. The construction superintendent must designate a competent person for each job site for which the construction superintendent is responsible and ensure such competent person is present at the designated job site at all times active work occurs. The designation of a competent person does not alter or diminish any obligation imposed upon the construction superintendent. The competent person must carry out orders issued by the construction superintendent; be able to identify unsanitary, hazardous or dangerous conditions; take prompt corrective measures to eliminate such conditions; immediately report to the construction superintendent accidents at the job site or any damage to adjoining property caused by construction or demolition activity at the job site; and be able to effectively communicate workplace instructions and safety directions to all workers at the site.



WHAT ARE THE QUALIFICATIONS OF A REGISTERED CONSTRUCTION SUPERINTENDENT?

RCNY 3301-02

- Qualifications. All applicants for construction superintendent registration are subject to the provisions of Article 401 of Chapter 4 of Title 28 of the New York City Administrative Code and must submit satisfactory proof establishing that the applicant have met the minimum requirements established by RCNY 3301-02



DAILY LOG MINIMUM CONTENT

RCNY 3301-02

- The presence of the construction superintendent at the job site as evidenced by his or her printed name and signature and a notation indicating the times of arrival at, and departure from the site;
- The general progress of work at the site, including a summary of that day's work activity;
- The construction superintendent's activities at the site, including areas and floors inspected;
- Any unsafe condition(s) observed;



DAILY LOG MINIMUM CONTENT

RCNY 3301-02 (continued)

- Orders and notice given by the construction superintendent and outcome;
- Any violations, stop work orders, or summonses issued by the department, including date issued and date listed or dismissed;
- Any accidents; and
- The name of the competent person designated to oversee site in CS absence. Competent person must sign the log acknowledging he has been so designated.



This concludes the **American Institute of Architects Continuing Education Systems Course.**

AIA NYC Department of Buildings Contact:

Melanie Guzman

(212) 393-2163

Melaguzman@buildings.nyc.gov

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