Most Frequently Cited Serious Violations

Construction Industry
FY 2017

OSHA Federal Standards
October 1, 2016 – September 30, 2017
### Most Frequently Cited Serious Violations in Construction 2017

<table>
<thead>
<tr>
<th>Provision</th>
<th>Violation Description</th>
<th>Violations</th>
</tr>
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<tr>
<td>.501(b)(13)</td>
<td>Fall Protection - Residential Construction</td>
<td>4273</td>
</tr>
<tr>
<td>.1053(b)(1)</td>
<td>Ladders - Not Extended 3 Feet Above Landing</td>
<td>1458</td>
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<tr>
<td>.102(a)(1)</td>
<td>Eye &amp; Face Protection - Use of Appropriate Protection</td>
<td>1389</td>
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<tr>
<td>.503(a)(1)</td>
<td>Fall Protection - Training for Those Exposed to Fall Hazards</td>
<td>1243</td>
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<tr>
<td>.501(b)(1)</td>
<td>Fall Protection - Unprotected Sides &amp; Edges</td>
<td>1061</td>
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<td>.100(a)</td>
<td>Head Protection - Use of Protection</td>
<td>923</td>
</tr>
<tr>
<td>.453(b)(2)(v)</td>
<td>Aerial Lifts - Fall Protection</td>
<td>682</td>
</tr>
<tr>
<td>.451(g)(1)</td>
<td>Scaffolds - Fall Protection</td>
<td>608</td>
</tr>
<tr>
<td>.501(b)(10)</td>
<td>Fall Protection - Roofing Work on Low-Sloped Roofs</td>
<td>593</td>
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<tr>
<td>.20(b)(2)</td>
<td>General Safety &amp; Health Provision - Inspections by a Competent Person</td>
<td>507</td>
</tr>
</tbody>
</table>

#### Number of Serious Violations – FY 2017
GENERAL SAFETY & HEALTH
[1926.20 – .35]

NUMBER OF SERIOUS VIOLATIONS – FY 2017

- General Safety & Health Provision – Inspections by a Competent Person: 507
- Safety Training & Education - Employee Training Programs: 406
- General Safety & Health Provisions – Initiate & Maintain Accident Prevention Programs: 267
- Personal Protective Equipment – Employer Responsibility: 104
- Housekeeping – Work Area Shall Be Kept Clean: 94
Occational Health & Environmental Controls
[1926.50 – .66]

Number of Serious Violations – FY 2017

- Lead – Determining exposure at or above action levels
  - 62(d)(1)(i) 47

- Medical Service & First Aid – Suitable facilitates for quick drenching or flushing of the eyes and body
  - 50(g) 29

- Gases, Vapors, Fumes, Dust & Mist – Implementing administrative or engineering controls first
  - 55(b) 16

- Medical Service & First Aid – Certified person available to render first aid
  - 50(c) 14

- Occupational Noise Exposure – Effectives hearing conservation program
  - 52(d)(1) 14
PERSONAL PROTECTIVE & LIFE SAVING EQUIPMENT [1926.95 – .107]

NUMBER OF SERIOUS VIOLATIONS – FY 2017

- 102(a)(1) EYE AND FACE PROTECTION – USE OF APPROPRIATE PROTECTION: 1389
- 100(a) HEAD PROTECTION – USE OF PROTECTION: 923
- 95(a) PPE – PROVIDED USED & MAINTAINED: 127
- 102(a)(2) REQUIRED EYE & FACE PROTECTION – ANSI REQUIREMENTS: 28
- 106(a) WORKING OVER OR NEAR WATER – WHERE THE DANGER OF DROWNING EXISTS: 13
FIRE PROTECTION & PREVENTION
[1926.150 – .159]

NUMBER OF SERIOUS VIOLATIONS – FY 2017

- **FIRE PROTECTION – 2A FIRE EXTINGUISHER PROVIDED PER 3000 SQFT OF BUILDING**
  - 150(c)(1)(i): 28

- **FIRE PROTECTION – EXTINGUISHERS WITH 50FT OF 5 GALLONS OF FLAMMABLE LIQUIDS**
  - 150(c)(1)(vi): 25

- **FIRE PROTECTION – FIREFIGHTING EQUIPMENT SHALL BE PERIODICALLY INSPECTED**
  - 150(a)(4): 19

- **FIRE PROTECTION – PORTABLE EXTINGUISHERS INSPECTED PERIODICALLY**
  - 150(c)(1)(viii): 19

- **FLAMMABLE LIQUIDS – 20 B:C PROVIDED ON ALL TANK TRUCKS**
  - 152(d)(4): 12

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NUMBER OF SERIOUS VIOLATIONS – FY 2017

SIGNS, SIGNALS & BARRICADES [1926.200 – .203]

200(g)(2)  Accident Prevention Signs – Traffic signs conforming with MUTCD  16

200(g)(1)  Accident Prevention Signs – Traffic signs at point of hazards  13

201(a)  Signaling – Flaggers signaling & use  4

202  Barricades – Protection for employees shall conform with Part VI MUTCD  3

200(a)  Accident Prevention Signs – Signs shall be visible at all times  2
**Materials Handling, Storage, Use & Disposal [1926.250 – .252]**

**Number of Serious Violations – FY 2017**

- **Disposal – Exterior Drop Chutes**: 19
- **Rigging Equipment – Inspection & Removal from Service**: 14
- **Rigging Equipment – Permanently Affixed Identification**: 12
- **Rigging Equipment – Slings & All Fastenings Shall Be Inspected**: 8
- **Rigging Equipment – Welding Alloy Steel Chain Sling Identification**: 8
TOOLS: HAND & POWER
[1926.300 – .307]

GENERAL REQUIREMENTS – TOOLS DESIGNED FOR GUARDS
300(b)(1) - 78

WOODWORKING TOOLS – GUARDING OF PORTABLE CIRCULAR SAWS
304(d) - 41

WOODWORKING TOOLS – CIRCULAR HAND-FED RIPSAW SHALL BE GUARDED BY A HOOD
304(i)(1) - 32

WOODWORKING TOOLS – GUARDING OF CIRCULAR CROSSCUT TABLE SAW
304(h)(1) - 31

GENERAL REQUIREMENTS – GUARDING OF ROTATING/MOVING PARTS
300(b)(2) - 29

NUMBER OF SERIOUS VIOLATIONS – FY 2017
Welding & Cutting
[1926.350 -.354]

Number of Serious Violations – FY 2017

- **Gas Welding – Oxygen Cylinder Storage**
  - 350(a)(10)
  - Count: 21

- **Gas Welding – Cylinder Secured Upright**
  - 350(a)(9)
  - Count: 21

- **Arc Welding – Cables Shall Be Free From Repair or Splice**
  - 351(b)(2)
  - Count: 5

- **Fire Prevention – Fire Extinguisher Available**
  - 352(d)
  - Count: 5

- **Arc Welding – Using Cables Needing Repair**
  - 351(b)(4)
  - Count: 4
NUMBER OF SERIOUS VIOLATIONS – FY 2017

ELECTRICAL [1926.400 – .449]

- **Wiring Design – Grounding Path**
  - 404(f)(6)
  - Number: 144

- **General Requirements – No Employer shall permit work near any part of an electric circuit**
  - 416(a)(1)
  - Number: 138

- **Wiring Methods – Flexible Cord Strain Relief**
  - 405(g)(2)(iv)
  - Number: 121

- **General Requirements – Worn & Frayed Cords and Cables**
  - 416(e)(1)
  - Number: 112

- **General Requirements – Equipment Installation & Use**
  - 403(b)(2)
  - Number: 95
Scaffolds [1926.450 – .454]

Number of Serious Violations – FY 2017

- **Aerial Lifts – Fall Protection While in Basket**
  - 453(b)(2)(v) - 682

- **General Requirements – Fall Protection Above 10 Feet**
  - 451(g)(1) - 608

- **General Requirements – Safe Access Above 2 Feet**
  - 451(e)(1) - 484

- **General Requirements – All Working Levels Shall Be Full Planked**
  - 451(b)(1) - 374

- **General Requirements – Protection by PFAS or Guard Rail System**
  - 451(g)(1)(vii) - 298
### Fall Protection [1926.500 – .503]

<table>
<thead>
<tr>
<th>Violation Description</th>
<th>Number of Violations</th>
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<tbody>
<tr>
<td><strong>Fall Protection — Residential Construction</strong></td>
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<td><strong>Fall Protection Roofing Work on Low-sloped Roofs</strong></td>
<td>593</td>
</tr>
<tr>
<td><strong>Fall Protection — Roofing Work on Steep Roofs</strong></td>
<td>486</td>
</tr>
</tbody>
</table>

**Number of Serious Violations — FY 2017**
Helicopters, Hoists, Elevators, and Conveyors
[1926.550 – .556]

**Number of Serious Violations – FY 2017**

- **Hoists & Elevators – Complying with Manufacturer’s Recommendations**
  - 552(a)(1)
  - 554(a)(6)

- **Overhead Hoists – Shall meet the applicable requirements**
  - 554(a)(6)

- **Hoists & Elevators – Operating rules shall be established & posted**
  - 552(b)(1)(i)

- **Hoists & Elevators – All entrances of the hoist way shall be protected**
  - 552(b)(2)

- **Hoists & Elevators – Overhead protective covering**
  - 552(b)(3)

- **Total Violations**
  - 13
NUMBER OF SERIOUS VIOLATIONS – FY 2017

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MOTOR VEHICLES, MECHANIZED EQUIPMENT, & MARINE OPERATIONS
[1926.600 – .606]

- Material Handling Equipment – Industrial Truck Operator Training: 49
- Material Handling Equipment – Industrial Trucks ANSI B56.1 1969 Requirements: 36
- Material Handling Equipment – Modifications that Affect Capacity Rating: 34
- Material Handling Equipment – Unauthorized Personnel Shall Not Be Permitted to Ride on PIT: 12
- Material Handling Equipment – Equipment which as Obstructed View Cannot Use Reverse Gear: 11
EXCAVATIONS
[1926.650 – .652]

EXCAVATION REQUIREMENTS – MEANS OF EGRESS

EXCAVATION REQUIREMENTS – DAILY INSPECTIONS BY COMPETENT PERSON

EXCAVATION REQUIREMENTS – PROTECTION FROM FALLING/ROLLING MATERIALS & EQUIPMENT

EXCAVATION REQUIREMENTS – EMPLOYEE REMOVAL FROM TRENCH BY COMPETENT PERSON

PROTECTIVE SYSTEMS – CAVE-IN PROTECTION

NUMBER OF SERIOUS VIOLATIONS – FY 2017
CONCRETE & MASONRY CONSTRUCTION
[1926.700 – .706]

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NUMBER OF SERIOUS VIOLATIONS – FY 2017

- **General Requirements – Reinforcing Steel Guarded**
  - 701(b)
  - 101 violations

- **Cast-in-Place – Formwork Designed to Support Loads**
  - 703(a)(1)
  - 8 violations

- **Equipment & Tools – Equipment Shall Be Locked & Tagged**
  - 702(i)(1)
  - 3 violations

- **Cast-in-Place – Drawing or Plans Available at the Jobsite**
  - 703(a)(2)
  - 3 violations

- **Cast-in-Place – Erected Shoring Equipment Shall Be Inspected**
  - 703(b)(3)
  - 3 violations

SUBPART Q
NUMBER OF SERIOUS VIOLATIONS – FY 2017

STEEL ERECTION
[1926.750 – .761]

- **FALL PROTECTION – PROTECTION FROM FALL HAZARDS**
  - 760(a)(1)
  - 132

- **TRAINING – FALL HAZARD TRAINING**
  - 761(b)
  - 35

- **STRUCTURAL STEEL ASSEMBLY – STABILITY SHALL BE MAINTAINED AT ALL TIMES**
  - 754(a)
  - 6

- **FALL PROTECTION – CONNECTIONS FOR FALL ARREST SYSTEMS**
  - 760(b)(3)
  - 6

- **FALL PROTECTION – CRITERIA FOR FALL PROTECTION EQUIPMENT SHALL CONFORM WITH 1926.502**
  - 760(d)(1)
  - 4
## Underground Construction, Caissons, Cofferdams, and Compressed Air

**[1926.800 – .804]**

<table>
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<th>Subpart S</th>
<th>Number of Serious Violations – FY 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>800(b)(1)</strong></td>
<td>Underwater Construction – Employee shall provide &amp; maintain safe means of access</td>
</tr>
<tr>
<td><strong>800(j)(1)(i)(A)</strong></td>
<td>Underwater Construction – Atmosphere in all underground work areas shall be tested</td>
</tr>
<tr>
<td><strong>800(k)(1)(i)</strong></td>
<td>Underwater Construction – Fresh air shall be supplied to all underground work</td>
</tr>
</tbody>
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NUMBER OF SERIOUS VIOLATIONS – FY 2017

**DEMOLITION**

[1926.850 – .860]

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</tr>
</thead>
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<tr>
<td>859(g)</td>
<td>9</td>
</tr>
<tr>
<td>850(g)</td>
<td>6</td>
</tr>
<tr>
<td>851(b)</td>
<td>6</td>
</tr>
<tr>
<td>850(c)</td>
<td>5</td>
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</table>

**Preparatory Operations – Open Walls Protected by a Height of 42 Inches**

**Preparatory Operations – Utilities Shut Off or Capped**

**Mechanical Demolitions – Inspections by a Competent Person**

**Stairs, Passageways & Ladders – Shall be Periodically Inspected**

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Blasting and the Use of Explosives
[1926.900 – .914]

Number of Serious Violations – FY 2017

- Loading of Explosives – Equipment shall not be operated within 50 feet
  - 905(h) 2

- General Provisions – Special precautions shall be taken when blasting in congested areas
  - 900(h) 1

- Blaster Qualifications – Shall be knowledgeable & competent
  - 901(e) 1
POWER TRANSMISSION AND DISTRIBUTION
[1926.950 – .968]

NUMBER OF SERIOUS VIOLATIONS – FY 2017

<table>
<thead>
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<th>Rule Reference</th>
<th>Description</th>
<th>Violations</th>
</tr>
</thead>
<tbody>
<tr>
<td>952(a)(2)</td>
<td>Job Briefing – Briefing by the Employee in Charge</td>
<td>6</td>
</tr>
<tr>
<td>954(b)(1)(i)</td>
<td>PPE – Personal Fall Arrest Systems Shall Meet the Requirements of Subpart M</td>
<td>4</td>
</tr>
<tr>
<td>960(c)(1)(ii)</td>
<td>Working On or Near Exposed Energized Parts – Employer Shall Establish Minimum Approach Distances</td>
<td>4</td>
</tr>
<tr>
<td>959(d)(2)</td>
<td>Job Briefing – Detailed Discussions</td>
<td>2</td>
</tr>
<tr>
<td>960(c)(1)(iii)(B)</td>
<td>Working On or Near Exposed Energized Parts – Energized Past Is Insulated From the Employee</td>
<td>2</td>
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</tbody>
</table>
STAIRWAYS AND LADDERS
[1926.1050 – .1060]

NUMBER OF SERIOUS VIOLATIONS – FY 2017
TOXIC & HAZARDOUS SUBSTANCES
[1926.1100 – .1152]

NUMBER OF SERIOUS VIOLATIONS – FY 2017

- **Asbestos – Exposure Assessment by a Competent Person**
  - 1101(f)(2)(i)
  - 24

- **Asbestos – Exposure Monitoring**
  - 1101(f)(1)(i)
  - 14

- **Asbestos – Determine Presence, Location & Quantity of ACM/PACM**
  - 1101(k)(2)(i)
  - 14

- **Asbestos – Identify Presence, Location & Quantity of ACM/PACM**
  - 1101(k)(3)(i)
  - 11

- **Asbestos – Training Program**
  - 1101(k)(9)(i)
  - 10
Confined Space in Construction
[1926.1200 – .1212]

Number of Serious Violations – FY 2017

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General Requirements – Competent person identifies all confined spaces
1203(a)

Training – Employer must provide training
1207(a)

General Requirements – Written permit space program
1203(d)

General Requirements – Guarding of all entrance covers
1203(e)(2)(iii)

Permit-Required Confined Space Program – Identify & evaluate the hazards
1204(b)

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CRANES AND DERRICKS IN CONSTRUCTION
[1926.1400 – .1442]

NUMBER OF SERIOUS VIOLATIONS – FY 2017

<table>
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<th>Code</th>
<th>Description</th>
<th>Violations</th>
</tr>
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<tbody>
<tr>
<td>1408(a)(2)</td>
<td>Power Line Safety Equipment Operations – Part of equipment could get closer than 20 feet</td>
<td>11</td>
</tr>
<tr>
<td>1412(e)(1)</td>
<td>Inspections – Equipment inspected each month it is in service</td>
<td>8</td>
</tr>
<tr>
<td>1412(f)(1)</td>
<td>Inspections – Equipment inspected every 12 months</td>
<td>7</td>
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<tr>
<td>1424(a)(2)(ii)</td>
<td>Work Area Control – Maintain barriers around hazard area</td>
<td>7</td>
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<tr>
<td>1428(a)</td>
<td>Signal Person Qualification – Must meet qualification requirements</td>
<td>12</td>
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</tbody>
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