



Construction Project Safety Management

ASSP – Three Rivers Chapter
April 2021
Ralph Barszcz





Safety, Health & Risk Professional for 16+ Year

- Loss control rep for insurance carrier
- Utility owner's safety rep
- General contractor safety

Current head of safety & health at Leopardo Companies

- Oversight of corporate program and project approaches
- Manage 2 full-time coordinators





**Commercial general contractor /
construction manager**

In business for 40+ years

Target several strategic markets:

- **Tenant interiors**
- **Healthcare / Institutional**
- **Corporate / Community**
- **Residential**

Project ranges: \$2k to almost \$100MM

Self-Perform: 175 union trades

- **Demolition**
- **Carpentry (framing, drywall)**
- **Wall finishes (taping, painting)**





- **Utilize construction standards and contractor case study to plan and review the safety approach to the next construction project at your facility**
- **Specifically: Review contractor safety plans and work conditions for effectiveness**
- **Contractors: Gain new insights into approaches, software, etc. that can be taken back to co-workers for evaluation**



- **Construction standards**
- **Project safety planning and coordination**
- **Approaches to critical risks**
- **Inspections**
- **Sharing lessons learned**
- **Recent challenges**
- **Q&A**



1910: General Industry

- Everything but agriculture, construction and maritime

1926: Construction

- Construction, demolition, alteration or repair
- NOT maintenance

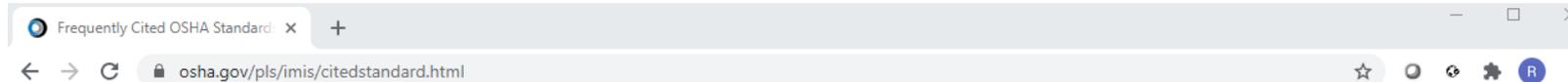
Key differences:

- Construction-specific OSHA 10- and 30-Hour
- Fall protection: 4 feet vs. 6 feet
- Specialized standards (ex: Excavations)

Commonalities

- General Duty Clause of the OSH Act
- Recordkeeping
- Directly-referenced 1910 standards
 - HazCom, Forklifts, Respirators...





UNITED STATES
DEPARTMENT OF LABOR



Occupational Safety and Health Administration

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[OSHA](#) [STANDARDS](#) [TOPICS](#) [HELP AND RESOURCES](#)

SEARCH OSHA

Frequently Cited OSHA Standards

This page allows the user to list the most frequently cited Federal or State OSHA standards for a specified 6-digit North American Industry Classification System (NAICS) code. Also available is [Industry Profile for OSHA Standard](#) which lists NAICS classifications having the most occurrences of citations for a specified OSHA standard.

Select number of employees in establishment:

All 1-9 1-19 1-99 20-49 20-99 50-99 100-249 1-249 250+

Federal or State Jurisdiction: NAICS: *(Submit empty for NAICS list.)*

Submit

The data shown reflects OSHA citations issued by the Federal or State OSHA during the specified fiscal year; see [definitions](#). If you are interested in obtaining the NAICS code for a particular industry, references are available on the [NAICS Manual](#). This manual contains descriptions of every NAICS sector.



UNITED STATES
DEPARTMENT OF LABOR

Occupational Safety and Health
Administration
200 Constitution Ave NW
Washington, DC 20210
800-321-6742 (OSHA)
TTY
www.OSHA.gov

FEDERAL GOVERNMENT

White House
Severe Storm and Flood Recovery
Assistance
Disaster Recovery Assistance
DisasterAssistance.gov
USA.gov
No Fear Act Data
U.S. Office of Special Counsel

OCCUPATIONAL SAFETY AND HEALTH

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1910

- Hazardous energy control
- Machine guarding
- **Hazard communication**
- Powered industrial trucks
- Mechanical power presses / transmission
- **Respirators**
- Electrical wiring / components
- **Fall protection**
- **Personal protective equipment**
- Process safety management

1926

- **Fall protection**
- Scaffolds
- Ladders
- **Eye and face protection**
- General safety and health programs
- **Head protection**
- Excavations
- Lifts (MEWP's)
- **Hazard communication**
- **Respirators**

- **Stopping these fatal incidents would eliminate over half of the causes of workplace fatalities in construction:**
 - Falls
 - Caught-In or -Between
 - Struck-By
 - Electrocutation
- **So how do companies like Leopardo address these and other hazards?**





- **Pre-Job Risk Meeting**
 - Environmental
 - Production
 - Quality
 - Safety and health
- **Entire project team**
 - Project executive, manager, engineer, superintendent, safety rep
- **Weeks to months before the start of project**
 - Based on size and complexity
 - Ex: Owner contract or letter of intent signed



- **Goal: To address the safety and health items that require the most time and resources to control:**
- **“STCKY” and “STBY” items**
 - **Owner requirements (ex: full-time safety rep)**
 - **Hazardous surroundings (ex: overhead power lines)**
 - **Environmental issues (ex: contaminated soils, asbestos)**
 - **Specialized access (ex: skip hoists)**
 - **Significant fall protection (ex: roof systems)**
 - **New subcontractors**
 - **Specialty conditions (ex: confined spaces, post tension)**



- **Template that elaborates on the Pre-Job Risk Meeting**
- **Emergency action plan**
 - Important phone numbers
 - Critical shutoff locations
 - Incident / crisis response – even media
 - Clinic locations
- **Safety orientation**
 - Specific to the site
 - In-person daily or weekly
 - Numbered stickers for the hard hats



Project Safety Startup Plan

* Complete this plan with guidance from the Leopardo Safety Department as needed at the start of the project. (Interiors only projects can utilize the Project Safety Startup Plan in Capital in lieu of this plan.)

Table with 2 columns: Field (Project Name and Number, Market, Project Executive, Superintendent, Project Manager, Meeting Attendees, Today's Date) and Action Items.

Table with 3 columns: Owner / Facility Items, Applicable?, Action Items. Rows include Unique owner requirements, Unique contract structures, Critical neighboring facilities, Environmental status reports, Public interaction and barriers, Security provisions.

Table with 3 columns: Documentation / Training, Applicable?, Action Items. Rows include Signage in place, Emergencies (plan, clinics), Orientation / stickers needed, Unique training/certs needed.

Table with 3 columns: Safety Supplies, Applicable?, Action Items. Rows include First aid kit, AED, extinguishers, PPE (hard hats, glasses, ear plugs, masks, vests, gloves, face shields, tie-off).

Table with 3 columns: Important Meetings, Applicable?, Action Items. Rows include Subcontractor Kick-Off / Phase Pulls, High-risk pre-install meetings, Crew leader meetings, Weekly orientation date.



Emergency Action Plan

Project Information table with fields: Project Name, Project Location.

Emergency Numbers (Leopardo, Facilities, Demo/MEPFP Subcontractors) table with columns: Name, Company, Title, Phone.

Utility Emergencies table with rows: Sprinklers, Water, Electrical, Fire Alarm Panel / Zones, Other.

Emergency Response / Supplies (Poison Control Center: 800-222-1222) table with rows: Safety Data Sheets, AED, Other.

Evacuations and Severe Weather table with rows: Evacuation Alarm, Evac Route / Backup, Assembly Point / Backup, All-Clear Signal, Shelter Alarm, Shelter Area / Backup.

For Injuries or Illnesses and For Crises or Emergencies sections with detailed bullet points.

Slide 1: Project Overview. Includes Leopardo logo, Project Name, Project Photo, Safety Orientation, Updated: Date.

1

Slide 2: Project Overview. Includes Project description, Unique aspects, Current hazardous operations, Access points & security, and Overhead Photo.

2

Slide 3: Project Overview. Includes Logistics (Contacts, Meetings, Deliveries/parking, Dumpsters/cleanup, Noise/radios, Smoking, Facilities) and Logistics Photo.

3

Slide 4: Emergency Procedures. Includes Evacuations (Evacuation alarm, routes, assembly point, backup, all-clear signal), Severe weather shelter, Emergency supplies, and Utility shut-off locations.

4

Slide 5: Project Do's. Includes Communicate and ask questions, Report any issues to supervision immediately, Maintain awareness at all times, Obey all signage and barricades, Complete permits and forms as needed, Follow all rules (project, OSHA, equipment, ...), Report incidents immediately!, Drug and alcohol test if outside treatment is needed, Competent Person required for each crew, Documentation Review (Certifications, Daily Rosters and Reports, Safety Plans and Safety Data Sheets).

5

Slide 6: Health Provisions. Includes Pre-screen for illness, Stay home if sick / close contact with someone sick, Follow current health guidelines (Social distancing, Face coverings), Follow hygiene practices (Hand washing/sanitizing, Cover coughs, sneezes). Includes 6 ft social distancing graphic and hand hygiene graphic.

6



- **Most of our work is subcontracted!**
- **Pre-qualification**
 - TradeTapp software
 - Tied into bidding software (Building Connected)
 - Financials
 - Experience Modification Rating check
 - Below 1.0, or
 - Explanation with risk plan
 - Corporate safety plan & SDS
- **Contracts and insurance**
 - Subcontractor master agreement (safety and health expectations)
 - Project-specific agreements (scope of work)
 - Certificate of insurance

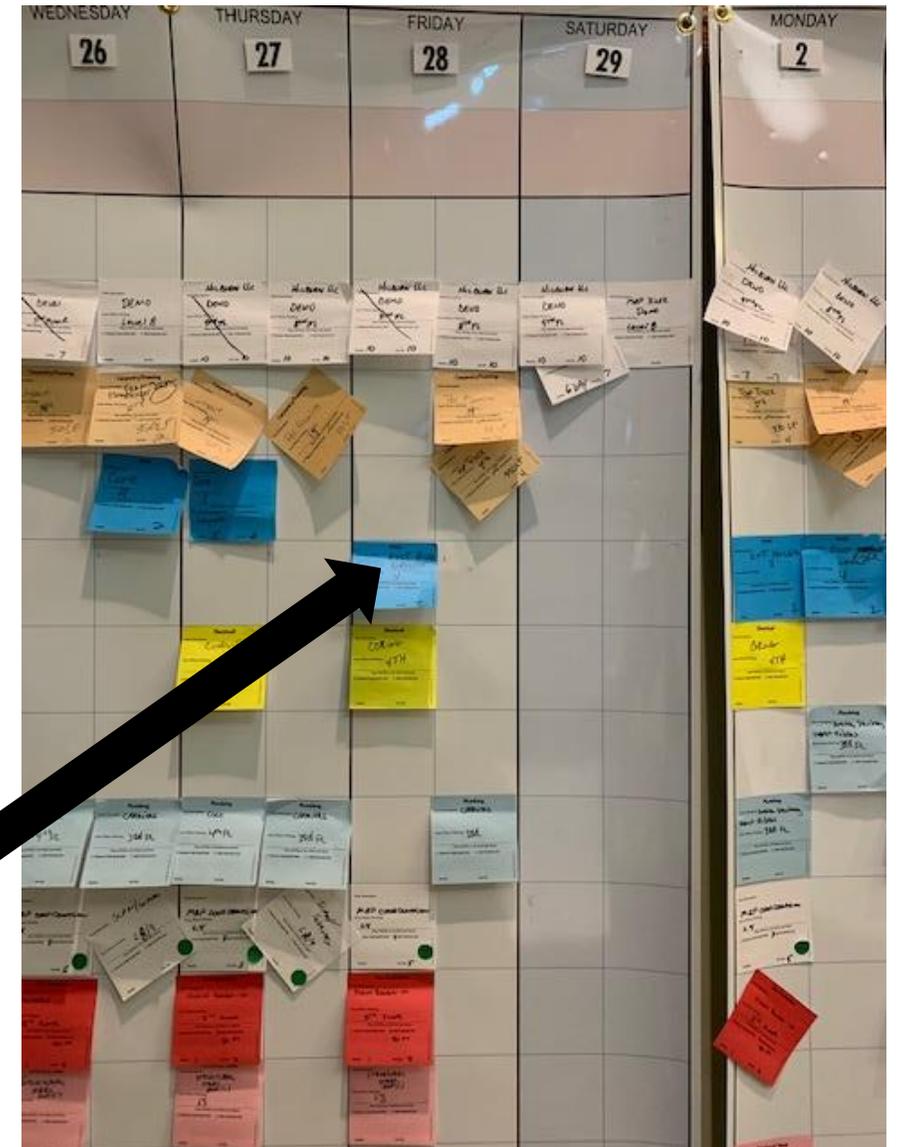


- **Pre-installation conference (“pre-con meeting”)**
 - **Key sub personnel (ex: safety rep, competent person)**
 - **Scope of work**
 - **Safety plan**
 - **Project-specific SDS**
- **Project safety orientation**



- **Phase Pulls**
 - Verify a front-end schedule by pulling it back to today
 - Based on reaching critical milestones (ex: watertight)
- **Look-Ahead Meetings**
 - Replaced a traditional crew leader meeting
 - Trades place tags on a board to identify work to be done for 5-6 weeks
 - Great opportunity to “flag” critical risks
- **Morning Huddles**
 - Conducted by each crew leader with their crews
 - Then all crew leaders huddle afterwards to share insights / concerns
 - Complete relevant forms such as hot work permits

- **Great way to flag an activity that warrants additional consideration**
 - Confined space permit
 - Crane pick plan
 - Demolition plan
 - Fall protection plan
 - Job hazard analysis
- **Check-valve to Project Safety Plan and Pre-Install Meeting**





- **Daily by Superintendent**
 - Raken app
 - Brief, 12 general questions
- **Weekly (or more) by Safety Department**
 - Real Time Risk Solutions app
 - More in-depth, closer to an audit
- **Monthly by Project Executive and Manager**
 - Microsoft Forms
 - Monthly themes (ex: overhead work)



19-5687 949 W. Daikin

949 West Dakin Street Chicago, Illinois 60613



Date Mon 03/15/2021 Job # 19-5687 Prepared By Jason Samolinski



Weather

6:00 AM	12:00 PM	4:00 PM
32°	34°	32°
Overcast	Overcast	Snow
Wind: 17 MPH Precipitation: .03" Humidity: 72%	Wind: 16 MPH Precipitation: .05" Humidity: 53%	Wind: 16 MPH Precipitation: .27" Humidity: 77%

Work Logs

Name	Description	Quantity	Hours	Hours To Date
All Sealants		0	0	230
Arcorp Steel	Install angle on underside of Level 3 deck for MEP penetrations <small>Jason Samolinski 03/16/21 08:54AM</small>	3	8	3036
Builders Concrete	Weather Day 15.5 - ironworkers called off with high winds <small>Jason Samolinski 03/16/21 09:01AM</small>	0	0	3761
ECS		0	0	194
Ewing Doherty Plumbing		0	0	436
Federal Rental Fence		0	0	12
Gilco Scaffolding		0	0	184
HTH Mechanical	Continue suspended duct at East side of Level 1 <small>Jason Samolinski 03/16/21 08:54AM</small>	2	8	120
LB Hall Fireproofing		0	0	176
Leopardo Carpenter Company #1		0	0	72
LEOPARDO Laborers	Continue visqueen at level 5 windows and continue setting up heaters at level 5 for Concrete pour <small>Jason Samolinski 03/16/21 08:58AM</small>	4	8	1831
Merit Electric	Backfill Com Ed underground at SE corner of site and continue switchgear installation. Install panel risers at	6	8	1288

Level 6 deck				
<small>Jason Samolinski 03/16/21 08:55AM</small>				
Michels Foundation		0	0	2623
Nova Fire Protection	Continue standpipe at both stairwells from level 1-4 <small>Jason Samolinski 03/16/21 08:55AM</small>	2	8	128
R Carrozza Plumbing	Continue suspended cast iron at 1st floor and continue layout at Level 4 <small>Jason Samolinski 03/16/21 08:57AM</small>	6	8	1174
RG Construction	Continue exterior framing at Level 1 north, continue structural studs at Level 2 and layout at Level 5 <small>Jason Samolinski 03/16/21 08:56AM</small>	6	8	1376
RV Builders	Continue masonry at south wall along G line <small>Jason Samolinski 03/16/21 08:55AM</small>	5	8	2261
Taylor Excavating		0	0	1192
V3 Surveyors		0	0	48
Total		34	272	20142

Materials No entry

Equipment No entry

General Notes No entry

Site Safety Observations No entry

Survey

Questions	N/A	No	Yes	Description
1. Did a municipal inspection occur today?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Were any visitors on site today?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Did weather cause any delays?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Experienced weather day 15.5 with high winds and snow later in the day <small>Jason Samolinski 03/16/21 09:02AM</small>
4. Did any other schedule delays occur?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Was any rental equipment delivered or returned today?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Were any dump boxes delivered or returned today?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Were any permits issued? (e.g. Hot Work)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. Were any incidents reported or noted on site today? (Incident report needed)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Did any worker report a project safety concern	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



Leopardo Ralph Barszcz No Title

Log out

View

Mobile Apps / Safety / Observations / View

Observation Report

	PERFORMED BY: Ralph Barszcz	OBSERVATION DATE: 3/1/2021 12:08 P.M.	
	NAME: 19-5687 949 W. Dakin	PROJECT ADDRESS: 949 W. Daikin Chicago, IL 60613	Category: Leopardo Safety Report
	CONTRACTOR:		

Observation Summary

CATEGORY	TOTAL COUNT	SEVERITY		
		Low Severity	Medium Severity	High Severity
Follow Up Required	0	0	0	0
Pending Review	0	0	0	0
Pending Approval	0	0	0	0
Issue Resolved	0	0	0	0
Safe	28			

General Observation Notes:

3/1/2021 - 12:08 P.M. - Ralph Barszcz - No outstanding safety issues or concerns noted during the walk this morning - the project looked very good!

Follow Up Required - 0

Pending Review - 0

Pending Approval - 0

Issue Resolved - 0

Explore / Pro / Observation Workbook / Issues Encountered Word Cloud

View: Original Alerts Subscribe Share Download Full Screen

Issues Encountered Word Cloud

Company Name: Leopardo Companies, Inc.

App Name: Safety

Project Name: (All)

Client Name: (All)

Employee Name: (All)

Division: Safety

Category Name: Leopardo Safety Report

Open vs Resolved Issues: Resolved Issue

Question Key Word Search:

Range: February 15, 2021 - March 15, 2021

Active User Filter: Active

Active Project Filter: Active



Forms PX, PM, PE, and FC Safety Walk March 2021: Overhead Work - Saved

Preview Theme Share

Questions Responses 9

PX, PM, PE, and FC Safety Walk March 2021: Overhead Work

The survey will take approximately 4 minutes to complete.
Project Executives, Managers, Engineers, and Field Coordinators:

In honor of National Ladder Safety Month, the theme for this month's walk will focus on overhead work. From ladders, lifts and scaffolds to steel erection, many of the hazards that arise out of construction are related to elevated work.

Choose one project to stage the walk and answer the questions below.
Please invite the Superintendent, Safety Department and Self Perform (if applicable) to your walk.

THESE WALKS CAN BE SCHEDULED VIRTUALLY - CONTACT THE SAFETY DEPARTMENT FOR ADDITIONAL INFO!
If you are in between active projects, please participate in the monthly Safety Committee WebEx (more info to follow).

As always, please direct concerns, questions and suggestions to the Leopard Safety Department.

1. Project(s) Visited

2. First and Last Name *

3. Who else participated in the walk?

Forms PX, PM, PE, and FC Safety Walk March 2021: Overhead Work - Saved

Preview Theme Share

Questions Responses 9

Gavin Barclay Adam Tomsha Sergio Lopez

4. Which group do you work with?

[More Details](#)

Self Perform - Office Staff	2
Grand Kahn - Office Staff	1
Field Coordination	1
Commercial / TI Unit	1
Corporate Community Unit	3
Institutional / Healthcare Unit	0
Residential Unit	0
Other	1

5. LADDERS:
Are ladders the appropriate grade and in good shape?
Are ladders being used properly? (A-frame, extension, job-made...)
(If not, please choose "Other" to describe the issue and corrective action.)

[More Details](#)

Yes	7
N/A	0
Other	2

6. LIFTS:
Are scissor lifts being used properly? (standing on platform with chain/gate closed)
Is 100% fall protection maintained in boom lifts?
(If not, please choose "Other" to describe the issue and corrective action.)

[More Details](#)

Yes	5
N/A	2
Other	2



- Electrical (cords, lighting, GFCI use...)
- **Eye and face protection**
- **Ladders**
- **Fall protection**
- Fire prevention / protection
- **Lifts (MEWP's)**
- **Head protection**
- Struck-by hazards
- Slips and trips / housekeeping
- **Scaffolds**



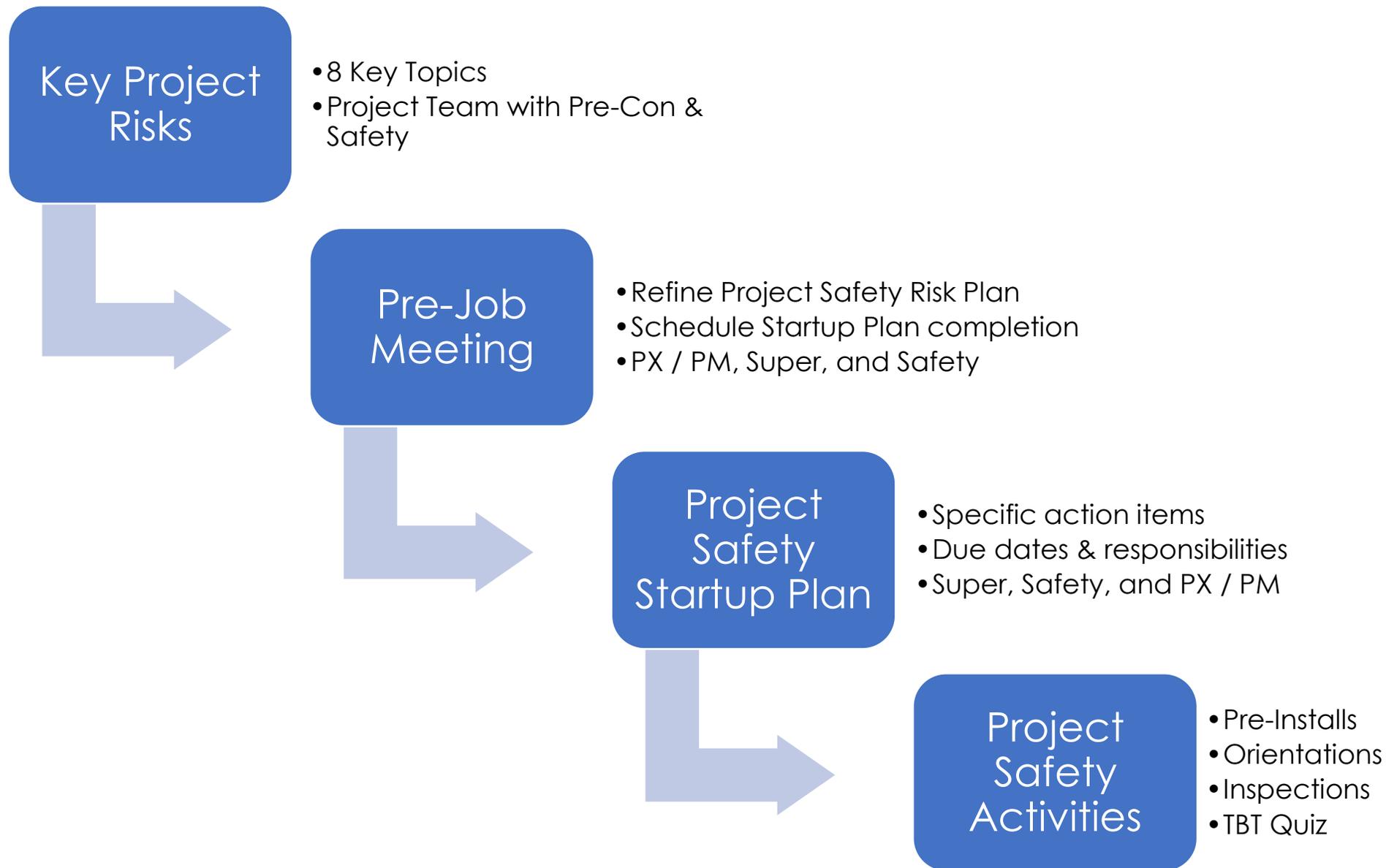
- **Weekly toolbox talk quizzes**
- **Microsoft Forms**
- **More engaging and competitive**
 - **Safety lunch for highest-scoring team monthly**
- **Analytics**
 - **See average scores**
 - **Increase focus where needed**

4. Which of the following ladder ratings is NOT acceptable on Leopardo projects? (HINT: CHOOSE THE ONE WRONG ANSWER!) * (1 Point)

- Type IA Extra Heavy Duty
- Type IAA Extra Heavy Duty
- Type III Household
- Construction-Grade

5. How often should ladders be inspected on our projects? (Hint: Choose ALL that apply!) * (1 Point)

- Upon arrival at the project
- Daily before use
- Periodically by a





- **COVID-19**
 - Changing guidelines
 - “Fatigue”
- **Strains and sprains**
- **Data integration**
 - Project management
 - Production
 - Quality
 - Safety

Objectives

- **Use construction standards and case study to review upcoming construction work**
- **Review construction safety plans and conditions for effectiveness**
- **Contractors gain new insight into approaches, software, etc. that can be reviewed with teams**

Agenda

- **Construction standards**
- **Project safety planning and coordination**
- **Approaches to critical risks**
- **Inspections**
- **Sharing lessons learned**
- **Recent challenges**