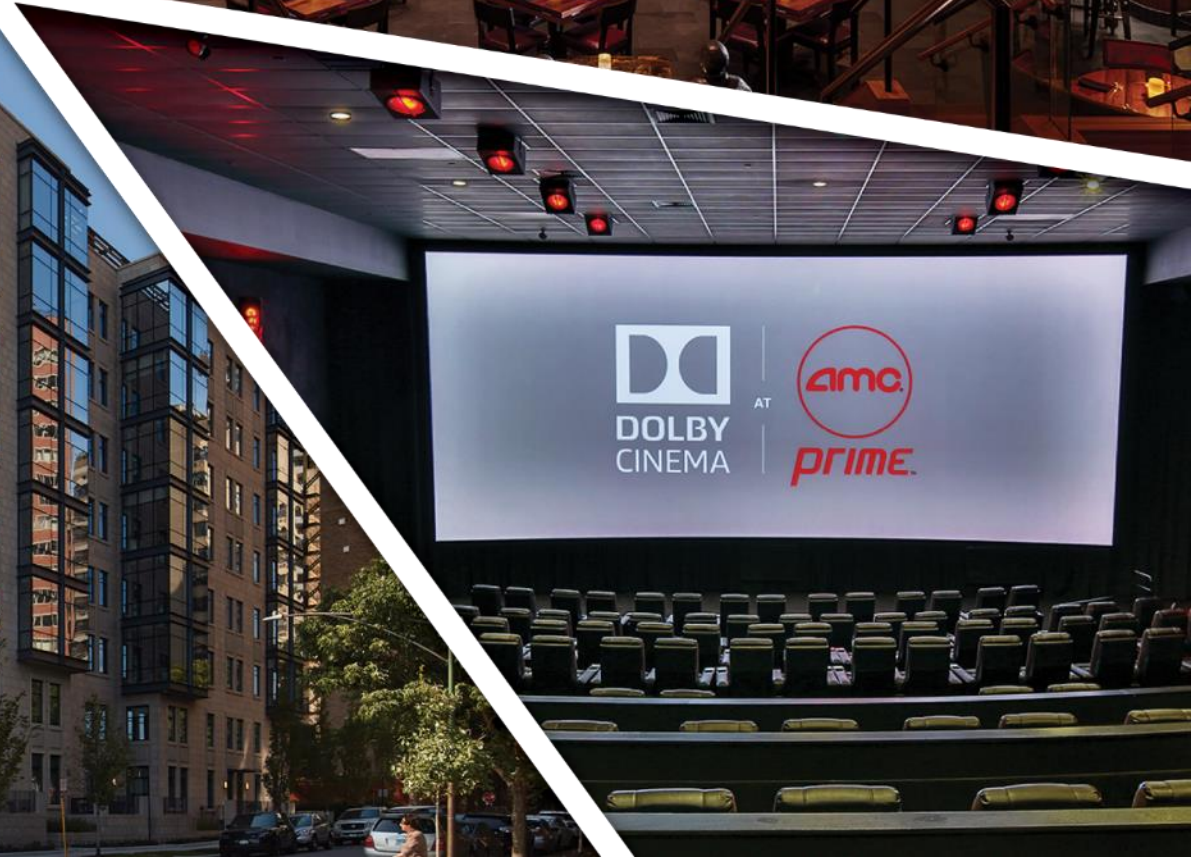
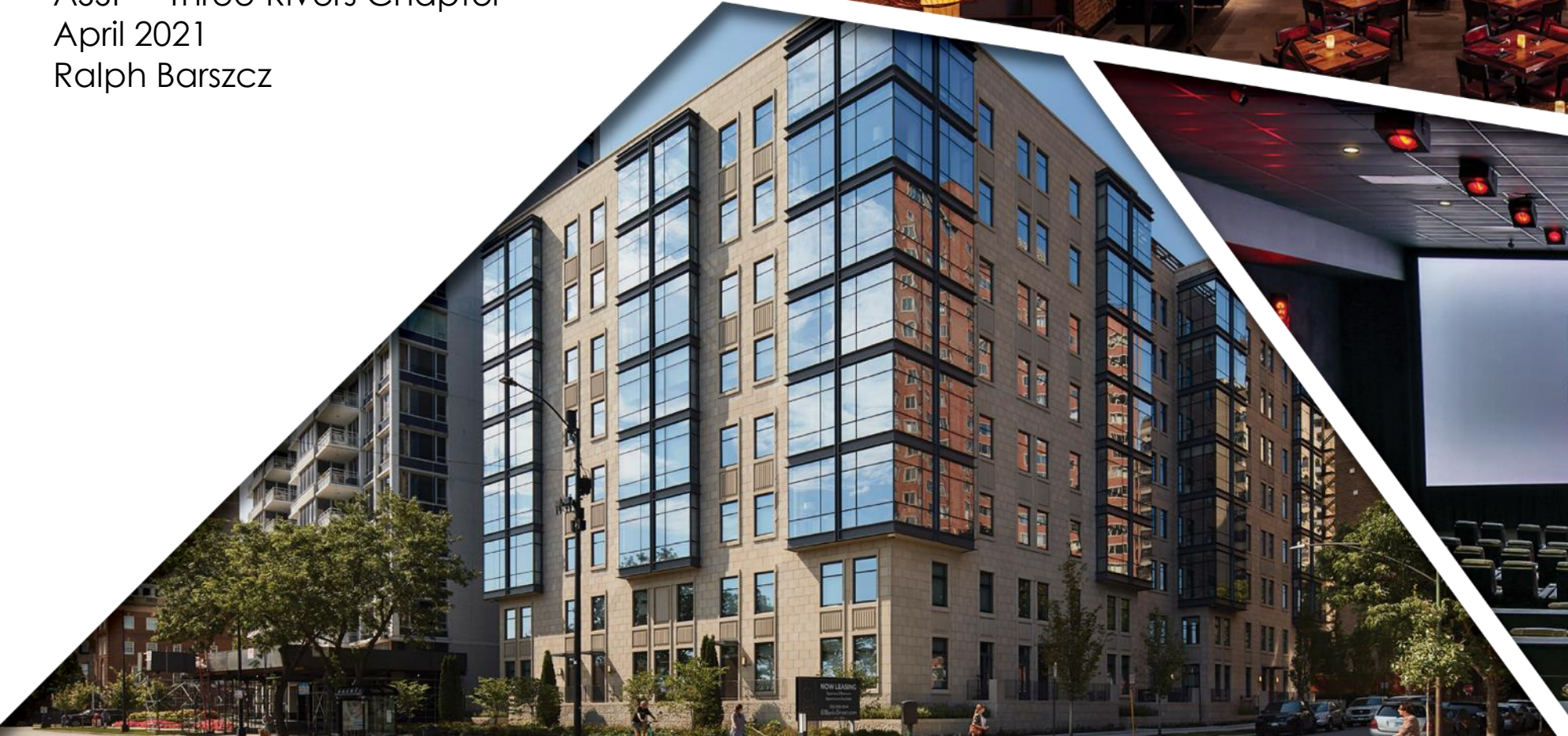




Construction Project Safety Management

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...





Frequently Cited OSHA Standard x +

← → ↻ osha.gov/pls/imis/citedstandard.html ☆ 🔍 🌐 ⚙️ R ⋮

 **UNITED STATES
DEPARTMENT OF LABOR**

[f](#) [t](#) [i](#) [r](#) [e](#) [v](#)

Occupational Safety and Health Administration [CONTACT US](#) [FAQ](#) [A TO Z INDEX](#) [ENGLISH](#) [ESPAÑOL](#)

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

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.)*

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
Frequently Asked Questions
A - Z Index
Freedom of Information Act
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ABOUT THE SITE
Freedom of Information Act
Privacy & Security Statement
Disclaimers
Important Website Notices
Plug-Ins Used by DOL
Accessibility Statement



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.)

Project Name and Number	
Market	
Project Executive	
Superintendent	
Project Manager	
Meeting Attendees	
Today's Date	

Owner / Facility Items	Applicable?	Action Items
Unique owner requirements		
Unique contract structures (multiple GC's, joint ventures, etc.)		
Critical neighboring facilities (power lines, train tracks, cell towers, airport/heliport, etc.)		
Environmental status reports (soils, asbestos, lead, mold, pathogens)		
Public interaction and barriers (partitions, canopies)		
Security provisions		

Documentation / Training	Applicable?	Action Items
Signage in place (Fed, State, Custom, gates, fencing)		
Emergencies (plan, clinics)		
Orientation / stickers needed		
Unique training/certs needed (scaffolds, stages, forklifts)		

Safety Supplies	Applicable?	Action Items
First aid kit, AED, extinguishers, caution/danger tape		
PPE (hard hats, glasses, ear plugs, masks, vests, gloves, face shields, tie-off)		

Important Meetings	Applicable?	Action Items
Subcontractor Kick-Off / Phase Pulls		
High-risk pre-install meetings (structural, enclosure trades, new subcontractors)		
Crew leader meetings		
Weekly orientation date		



Emergency Action Plan

Project Information

Project Name	
Project Location	

Emergency Numbers (Leopardo, Facilities, Demo/MEPFP Subcontractors)

Name	Company	Title	Phone

Utility Emergencies

Sprinklers	
Water	
Electrical	
Fire Alarm Panel / Zones	
Other	

Emergency Response / Supplies (Poison Control Center: 800-222-1222)

Safety Data Sheets	
AED	
Other	

Evacuations and Severe Weather

Evacuation Alarm	
Evac Route / Backup	
Assembly Point / Backup	
All-Clear Signal	
Shelter Alarm	
Shelter Area / Backup	

For Injuries or Illnesses:

- Secure the scene
- Voluntarily provide first aid (if trained)
- If necessary, call 9-1-1 immediately
 - Inform dispatcher that it is construction-related
 - In Chicago, ask for Unit 515 for Special Rescues
- Inform a Leopardo supervisor immediately
- Leopardo supervisors: Call Safety, Super Team Leader, Operations Officer, or Human Resources
- If outside medical treatment is needed, coordinate an escort to the facility (Subs should escort their own personnel)
- Complete incident report, witness statements, photos, diagrams, etc. Secure items as needed

For Crises or Emergencies:

- Initiate site control and determine if a shut-down is needed
- Post personnel at access sites as needed
- Make sure all site personnel are accounted for
- Notify all personnel to direct questions from outside groups to the Leopardo supervisor on-site
- Contact critical personnel: Leopardo Safety / Super Team Leader, Project Executive / Principal, Owner's Reps
- Media Response:
 - "We are currently focused on responding to the needs of the situation. Please contact our client representative or our marketing department at 847-783-3914 for updates as they become available."
 - "We ask that you please stay in a safe area while personnel respond to the situation."

1

2

3

4

5

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

Crane
Pick
Plan





- **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° Overcast	34° Overcast	32° 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 Jason Samolinski 03/16/21 08:54AM	3	8	3036
Builders Concrete	Weather Day 15.5 - ironworkers called off with high winds Jason Samolinski 03/16/21 09:01AM	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 Jason Samolinski 03/16/21 08:54AM	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 Jason Samolinski 03/16/21 08:58AM	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

Jason Samolinski | 03/16/21 | 08:55AM

Michels Foundation		0	0	2623
Nova Fire Protection	Continue standpipe at both stairwells from level 1-4 Jason Samolinski 03/16/21 08:55AM	2	8	128
R Carrozza Plumbing	Continue suspended cast iron at 1st floor and continue layout at Level 4 Jason Samolinski 03/16/21 08:57AM	6	8	1174
RG Construction	Continue exterior framing at Level 1 north, continue structural studs at Level 2 and layout at Level 5 Jason Samolinski 03/16/21 08:56AM	6	8	1376
RV Builders	Continue masonry at south wall along G line Jason Samolinski 03/16/21 08:55AM	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 Jason Samolinski 03/16/21 09:02AM
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

Risk Dashboard

Administration

Mobile Apps

Safety

Company News

File Cabinet

Mobile Forms

Observations

View Observations

Combine Observations

Categories

Questions

Policies

How To Guides

Toolbox Talks

Lessons Learned

Training

View

Mobile Apps / Safety / Observations / View

Observation Report

Leopardo

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 Leopardo Safety Department.

1. Project(s) Visited

Enter your answer

2. First and Last Name *

Enter your answer

3. Who else participated in the walk?

Enter your answer

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**



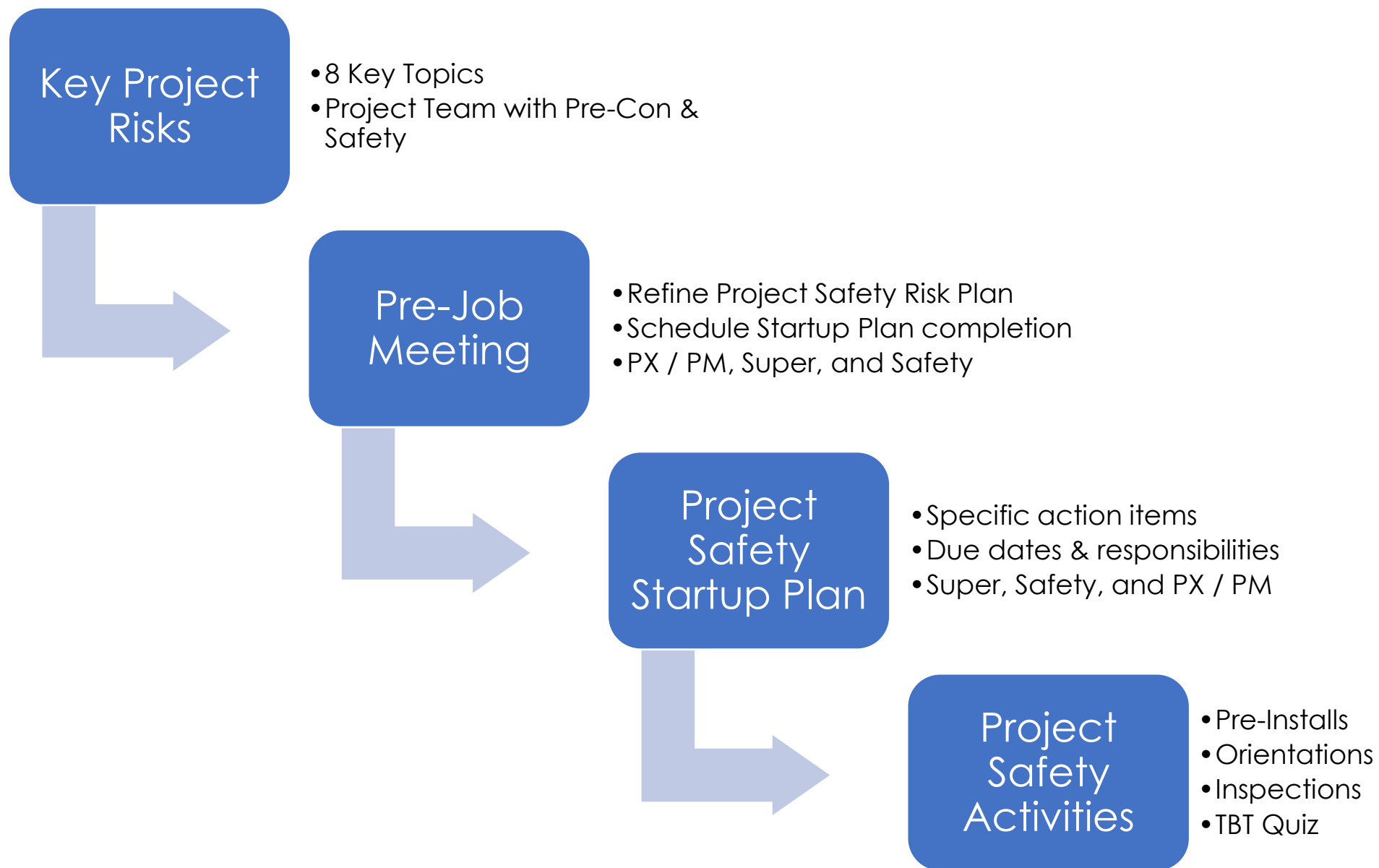
- **Weekly toolbox talk quizzes**
- **Microsoft Forms**
- **More engaging and competitive**
 - **Safety lunch for highest-scoring team monthly**
- **Analytics**
 - **See average scores**
 - **Increase focus where needed**

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**