

# **Planning Construction Projects**



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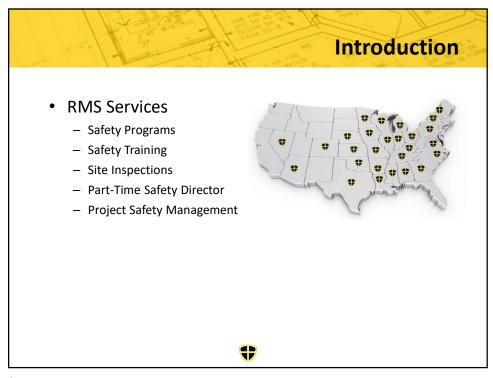
#### Introduction

#### Presenter

- Kevin Beswick
- Bachelor Degree (ISU)
- Indiana OSHA
- RMS Safety (Consultant)
- Miller Pipeline (Safety Director)
- RMS Safety (President)
- Jesus
- Family
- Coaching









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# **Section 1**

The Value of Planning

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# The Value of Planning

• Why is planning important?



CHAOS is the result of improper planning!





• Have you seen these? Why does this happen?











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#### The Value of Planning

- Study done by "WorkNest" in 2022.
  - Intent = ID Common Root Causes
  - 200 random organizations
  - 10 different industries
  - Results
    - 48.5% = Lack of Planning (#1 cause)
    - 32.5% = Failure to Assess Risk (#2)



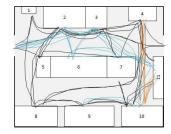
81%!!!

Quoted from an "HR News" article on 7/3/22.



#### The Value of Planning

- Planning can save time & stress.
  - Have you ever...
    - Not had the right tool for the job?
    - Had to stop or reschedule work?
    - Studied a "spaghetti diagram"?





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# The Value of Planning

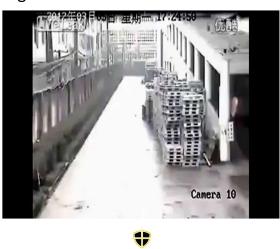
• Planning can save lives!





# The Value of Planning

• Planning can save lives!



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# The Value of Planning

• Planning can save lives!





# **Section 2**

Methods of Planning

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# **Methods of Planning**

#### Planning Methods

- Job Specs
- Pre-Construction Meetings
- Site-Specific Safety Plans
- Job Safety Analysis
- Daily Safety Meetings



What are some things/processes that can be used to help plan for safety?



- Job Specs
  - Inexperienced Workforce
  - Inadequate Manpower
  - Unreasonable Completion Date

When should you consider <u>not</u> bidding a job for safety reasons?





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# **Methods of Planning**

- Pre-Construction Meetings
  - Have <u>all</u> key people attend.
  - Bring a prepared list of questions.
  - Physically walk the site (if possible).



How can you get the most out of pre-construction meetings?



- Site-Specific Safety Plans
  - Who should write these?
  - When should they be written?



We will talk about the content later.



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# **Methods of Planning**

- Job Safety Analysis
  - Created with employee's help.
  - Risk levels ranked.
  - Reviewed daily & after lunch.



What are some "best practices"?



- Daily Huddles
  - Tasks can change.



Why should planning happen <u>DAILY</u>?



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# **Methods of Planning**

- Daily Huddles
  - Tasks can change.
  - Conditions can change.



Why should planning happen <u>DAILY</u>?



- Daily Huddles
  - Tasks can change.
  - Conditions can change.
  - Work areas can change.



Why should planning happen <u>DAILY</u>?



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# **Methods of Planning**

- Daily Huddles
  - Tasks can change.
  - Conditions can change.
  - Work areas can change.
  - Environments can change.







Why should planning happen <u>DAILY</u>?



- Daily Huddles
  - Involve all crew members!
  - Make it a group discussion.
  - Review yesterday's concerns.
  - Discuss the plan for today.
  - Walk the job as a group (daily).



What are some "best practices"?



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#### **Methods of Planning**

- Here is why involving **EVERYONE** is so valuable.
  - You will be shown an image for 7-seconds.
  - Look around & try to remember as much as possible.
  - You will be given a quiz after.





# **Methods of Planning**

- Who saw...
  - Burger King?
  - Nerf?
  - Radio?
  - Ronald Regan?
  - Reggie Jackson?

You get 20 points per item seen. Passing is 80 points.





# **Module 3**

Site-Specific Safety Plans (SSSP's)

# **Site-Specific Safety Plans**

- What should SSSP's consist of?
  - Only information that is unique and specific to the project.



Don't recreate your Safety Manual!



#### **Site-Specific Safety Plans**

- General Content
  - Scope of Work
  - Key Personnel
  - Safety Responsibilities
  - Proposed Work Shifts



Who should be included as "Key Personnel"?



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#### **Site-Specific Safety Plans**

- Designated Locations
  - Trailers
  - Storage (flammables, other)
  - Laydown
  - Disposal
  - Restrooms
  - Smoking
  - Shelter/Rally
  - Roof Access



What areas/locations should be marked on a map?



#### **Site-Specific Safety Plans**

- Site-Specific Hazards
  - Fall Anchor Points
  - Hazardous Chemicals
  - Health Hazards (asbestos, lead)
  - Hoisting Areas
  - Ladder Height
  - Overhead Powerlines
  - Pedestrian Entrances/Walkways
  - Private Utilities
  - Traffic Control



What site-specific hazards should be in a SSSP?



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#### **Site-Specific Safety Plans**

- Unique Owner Requirements
  - Barricading (Types/Colors)
  - Electrical Cord Suspension
  - Excavation Soil Classification
  - Equipment Inspections (documented)
  - Fall Protection Height
  - Permits (various types)
  - PPE Requirements
  - Speed Limits
  - Tool Restrictions



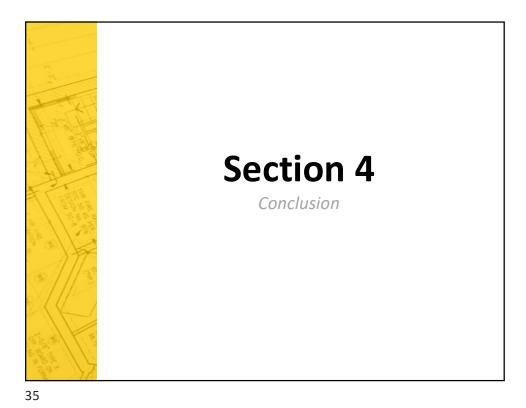


What unique requirements have you experienced?







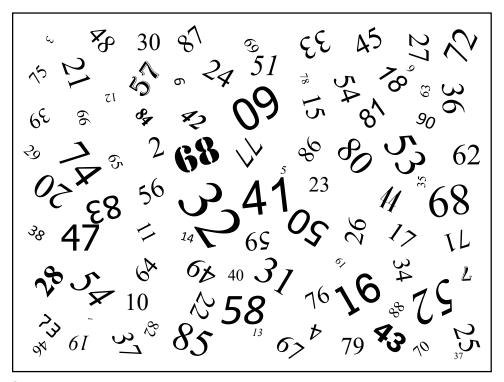


Conclusion

- Planning makes projects run better!
  - I'm giving you a job to do.
  - Find numbers 1-49.
  - You only have 20 seconds.
  - Ready???

Do you believe this? Let's test this theory.

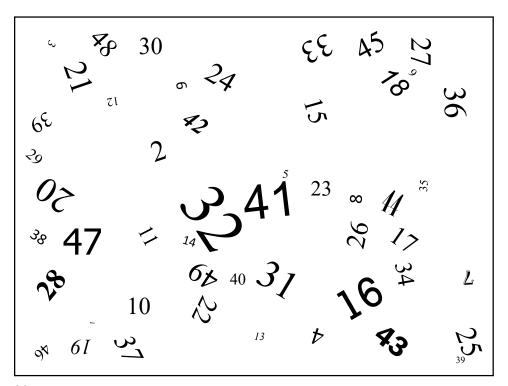




#### Conclusion

- Testing our theory...
  - How far did you get?
  - It looks like didn't bring a tool you needed (#8)!
    - Completing an equipment checklist could have avoided this.
  - You also spent time evaluating unnecessary things (#50-90).
    - Gathering information & evaluating the job <u>before</u> start could have avoided this.
  - Let's add #8, remove #50-90 and try again...

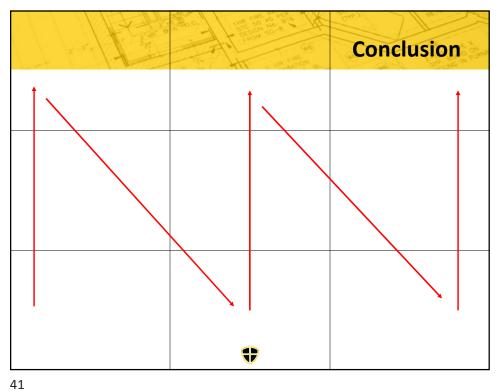




# Conclusion

- Testing our theory...
  - Did you improve?
  - What if I hold a pre-con meeting & share information?
    - The numbers are in order within a grid (starting in the bottom left).
    - I will show you & then give you another chance.





~ ~ ~ 30	6 24 5 5	36 27°8
6 <sup>E</sup> 2	23 A A 23	35
3° 47	14	97 17
	6× 40 31	16 4

#### Conclusion

- Testing our theory...
  - Better?
  - What if you have a daily huddle & brainstorm as a team?
    - How can we make this job even easier? Ideas?
  - You have 20-seconds...



#### Numbers from 1 to 49 33 34

