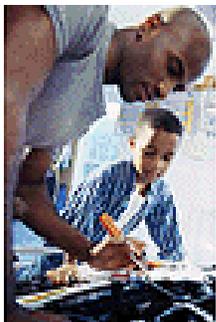




# Fall Protection Planning



SAFETY *by* DESIGN®

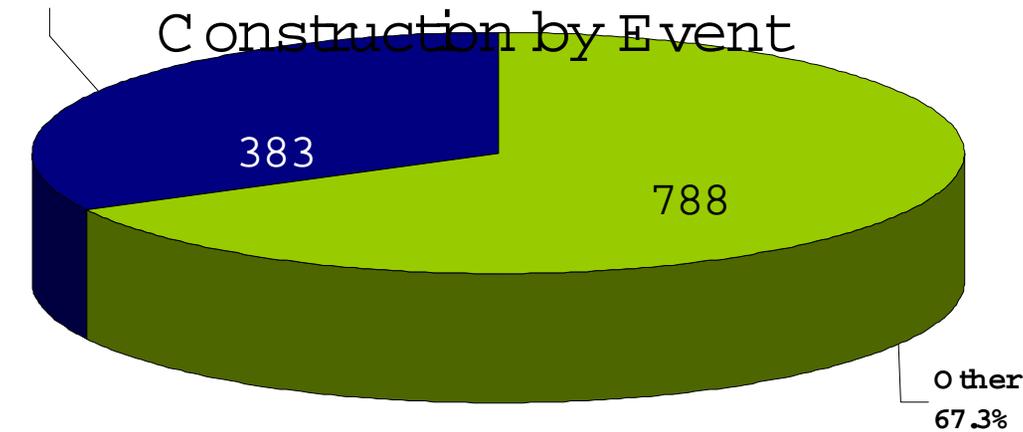


When should we start planning for fall protection issues at our job site?



If we pre-plan before the fall hazard exposure occurs, this will permit us ***time*** to consider how to eliminate or control the fall hazard exposure.

Occupational Fatalities Occurring in Construction by Event



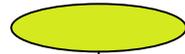
Of 1,171 Occupational Fatalities in the Construction Industry, 33% Resulted From Falls.

Source: 1998 BLS Census of Fatal Occupational Injuries



What should we consider in our pre-planning activities?





The specific types of work activities



The amount of time to design or redesign





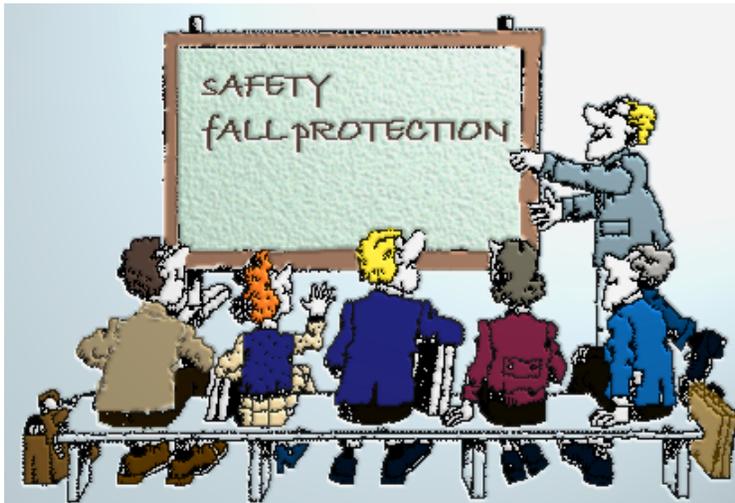
The time to train our personnel

- Authorized Users (workers)
- Competent Persons (foremen)
- Qualified Persons (engineers)



Create management awareness

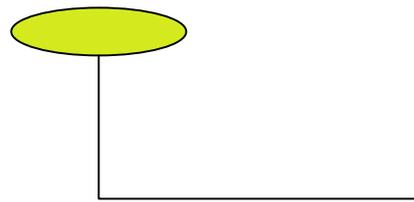
- Behavioral
- Cultural
- Financial



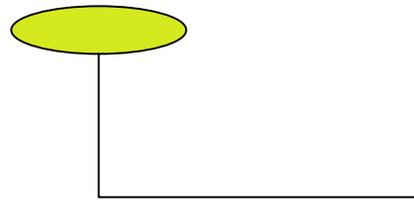


When should your pre-planning phase for fall protection issues and considerations begin?

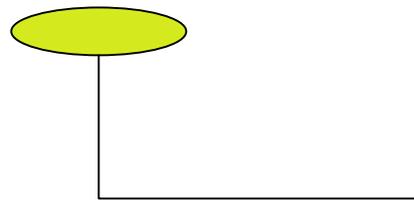




Engineering  
concept  
phase

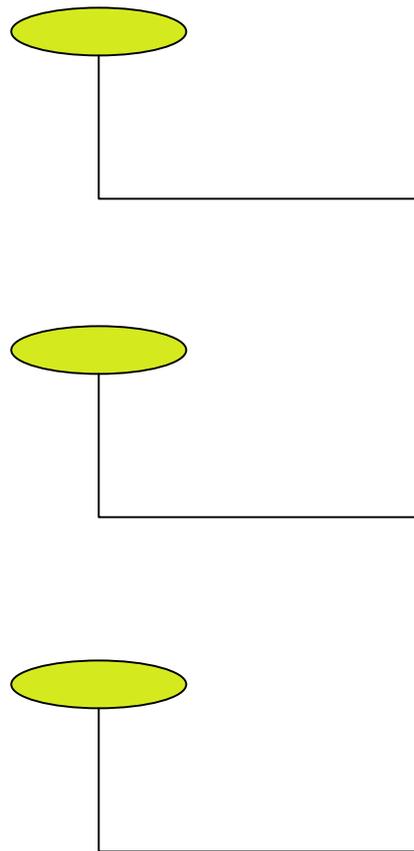


Engineering drawing phases



Document and construction  
drawing bidding phase



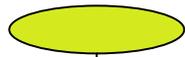


The site  
construction  
start up phase

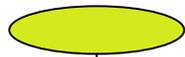
The  
construction  
building phase

The near fall or fall of personnel





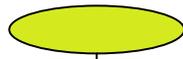
The OSHA site inspection phase



The post-OSHA citation phase

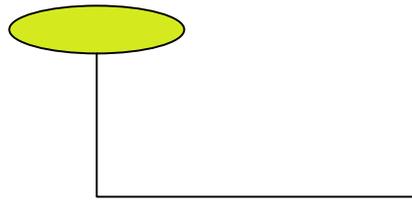
- Serious
- Repeat
- Willful





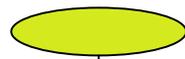
Have you noticed that the closer in time you get to the actual fall hazard exposures...





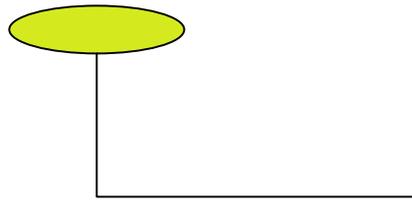
...the more effort (both time and money) it will require to eliminate and implement fall hazard exposure control measures.





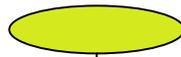
## Process Change Costs Profile

- Conceptual Design \$1
- Final Drawing \$10
- Field Modifications \$100
- Start-Up and Debugging \$1,000
- After the Process is Running \$10,000



*Safety by Design* calls this time occurrence as the “time gap” until a fall hazard occurrence.

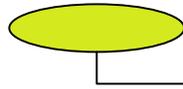




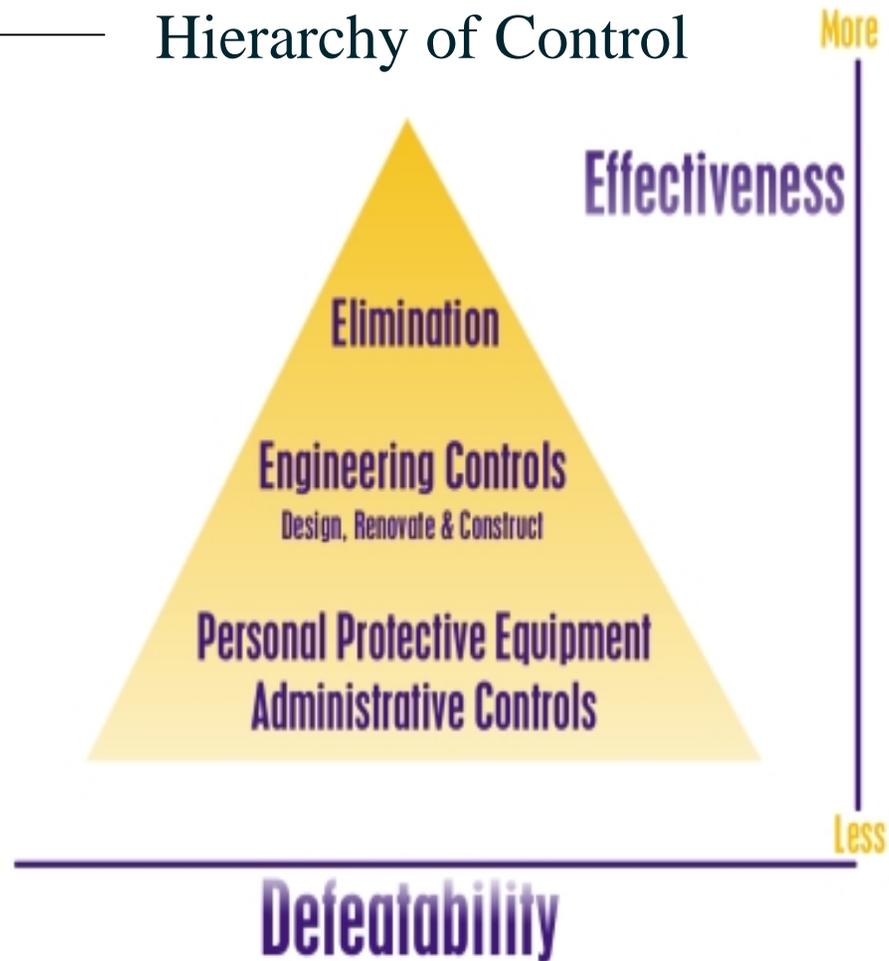
This “time gap” will directly and indirectly effect your company efforts in fall protection pre-planning.

- Company Culture
- Personnel Behaviors
- Training at Personnel
- Effective Use of the Hierarchy of Controls

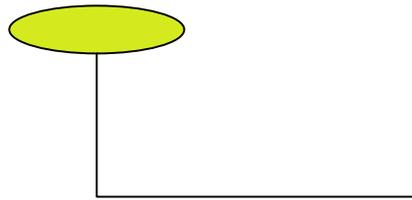




## Hierarchy of Control

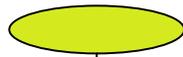






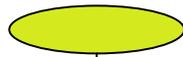
How do you use the Hierarchy of Control to control the financial investment in your fall protection program?





What does it cost your company for a worker's serious injury or death?

- Direct Costs
- Indirect Costs



- Lost Time Cost
- Cost to Replace Personnel
- Third Party Lawsuit Cost
- OSHA Citation Cost
- “Bad Press Cost” - For how long are these news topics affecting your company’s business?
- How many years are your Insurance Premiums Effected (EMR)?



Pre-planning will directly affect your success in eliminating and controlling fall hazard exposures.





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By LJB Inc.