



Session 10  
**PLANNED SAFETY  
INSPECTION**

# SAFETY INSPECTIONS

HELPFUL in detecting potential causes of ACCIDENTS.




However,  
**INSPECTIONS** alone  
Can not **isolate**  
Causes of **ACCIDENTS**

**INSPECTIONS** are most useful when integrated into the Company's **SAFETY PROGRAM**






# Types of Inspections



Ongoing	<ul style="list-style-type: none"><li>• Part of the job</li><li>• Frequent</li><li>• Corrective actions- immediate</li></ul>
Pre-operation	<ul style="list-style-type: none"><li>• New or modified machines</li><li>• Often done in shutdown</li></ul>
Periodic	<ul style="list-style-type: none"><li>• regular, planned</li><li>• part of preventive maintenance</li></ul>



# INSPECTIONS: whose responsibility?

	<b>Safety Officer</b>	<ul style="list-style-type: none"><li>- Conduct inspections with or without inspection teams</li><li>- Inspections should be at regular intervals</li><li>- More frequent inspections where dangers are likely to appear</li></ul>
	<b>Workers</b>	<ul style="list-style-type: none"><li>- Daily inspections by operators of machines and equipment</li><li>- Inspection checklist should be provided</li><li>- Report potential dangers immediately</li></ul>
	<b>Supervisors</b>	<ul style="list-style-type: none"><li>- Conduct spot inspection tours daily</li><li>- Check compliance on safety protocol</li><li>- Immediately address violations and deviations from standard</li></ul>



# Should supervisors be in the team?



## Advantages

- ✓ \_\_\_\_\_
- ✓ \_\_\_\_\_
- ✓ \_\_\_\_\_

## Disdvantages

- ✓ \_\_\_\_\_
- ✓ \_\_\_\_\_
- ✓ \_\_\_\_\_



# Inspection Teams



- ❑ Maintain an attitude of firmness, friendliness and fairness
- ❑ Should be easily identified (by the badge or uniform they wear)
- ❑ Inspection is part of every phases of production
- ❑ Regular element of the Standard Operating Procedures



# Inspection Teams



- ❑ Appointed from as many departments
- ❑ No permanent status, reconstituted at regular intervals
- ❑ As many workers are given opportunity to participate
- ❑ Inspections are planned part of the safety program



# Objectives of inspections

Maintain safe  
work  
environment

Ensure that  
workers follow  
procedures

Maintain  
product quality  
and profitability

Avoid accidents

Determine  
compliance  
with standards





# Inspections: Planning, Timing & Preparation

**SCHEDULE** When there is much opportunity to view operations at minimum interruptions



**ROUTES** Should be planned in advance.  
Vary time and day to be able to check the widest possible variety of conditions



**GOOD TO HAVE** Review previous accidents that happened in the area  
Use the same checklist with previous inspections



# What to inspect?

## FLOORS



- ❑ Damaged/worn-out surfaces
- ❑ Slippery portion
- ❑ Holes, undesired openings
- ❑ Cracks, sagging, shrinking, material warping
- ❑ Deteriorated parts



# What to inspect?

## STAIRWAYS



- ❑ Treads & risers – uniform and in good condition
- ❑ Handrails secured
- ❑ Generally, good condition
- ❑ Lighting is sufficient
- ❑ Free of clutters



# What to inspect?

## HOUSEKEEPING



# What to inspect?

## FIRE PROTECTION



## ELECTRICAL INSTALLATIONS



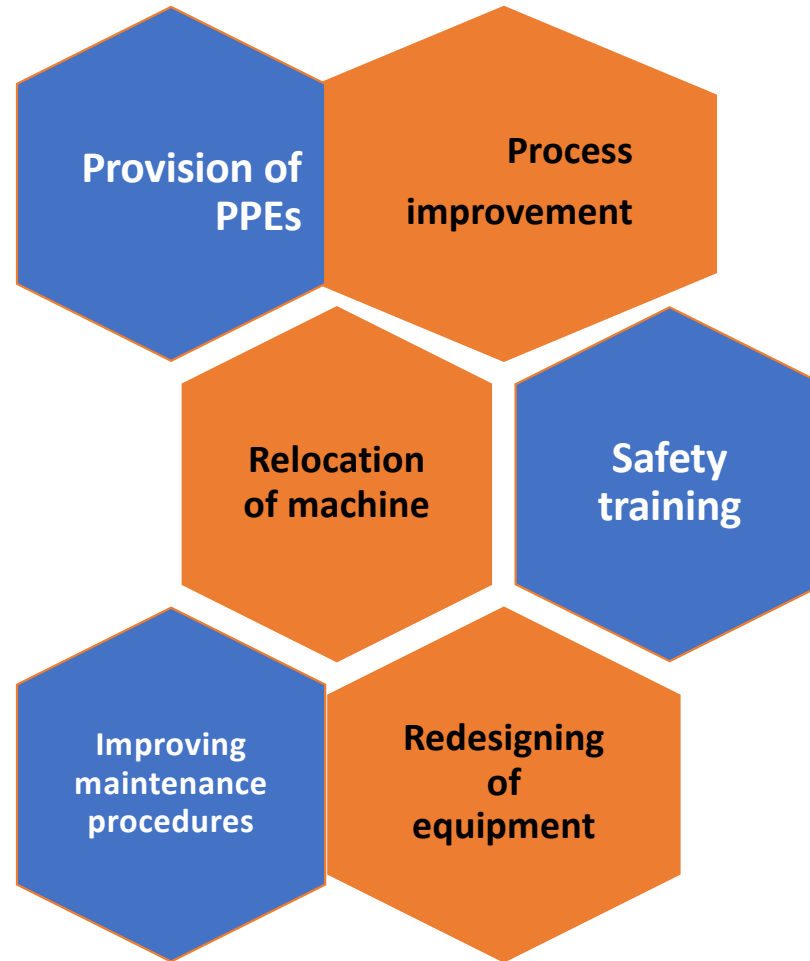
# What to inspect?

## LIFTING EQUIPMENT

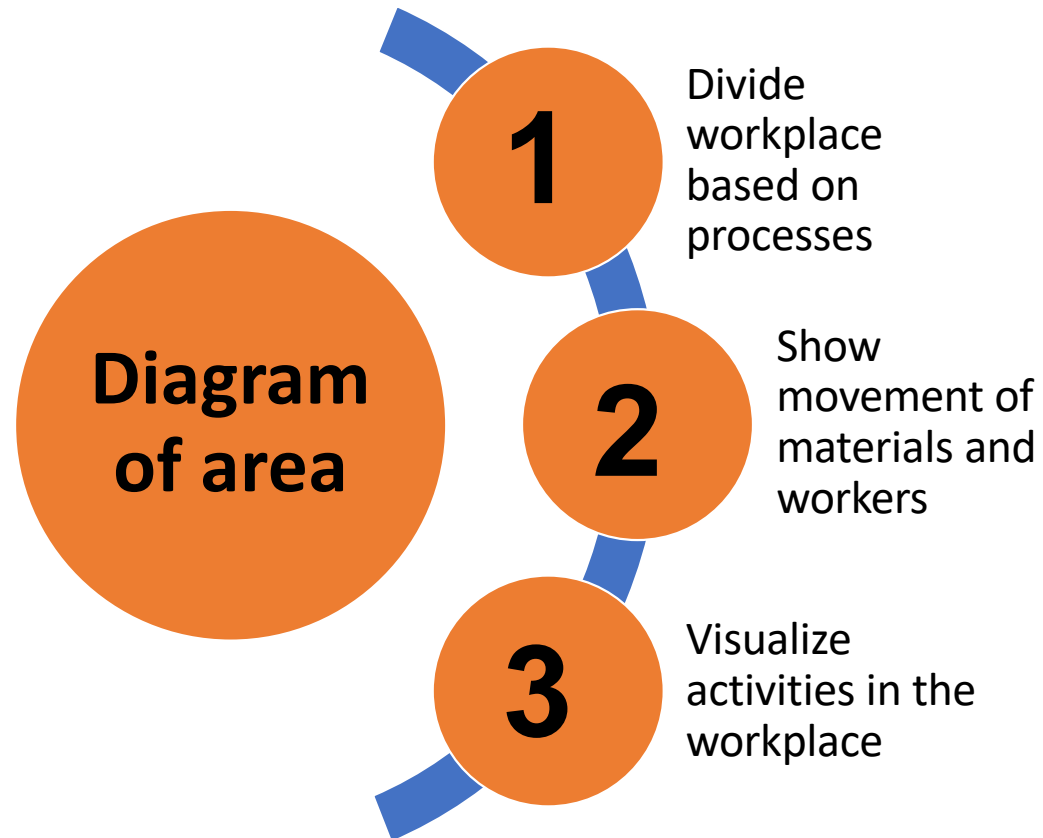


## MACHINE GUARDING



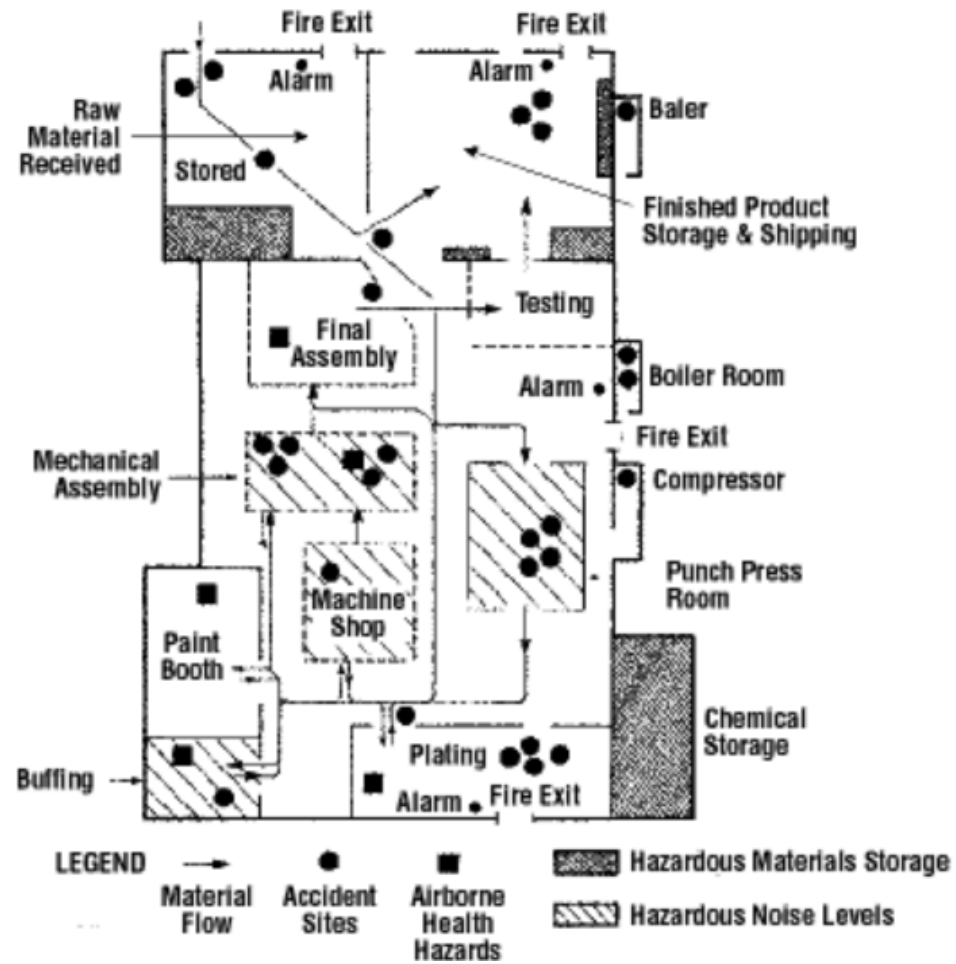


# Information needed

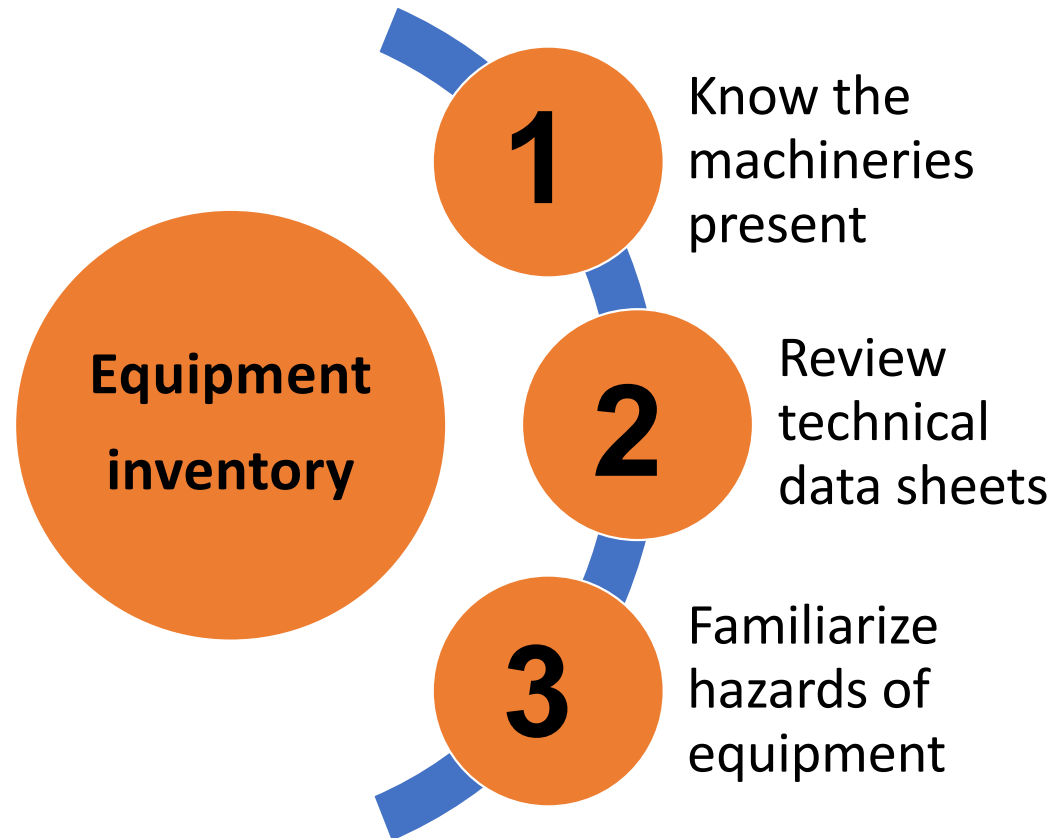




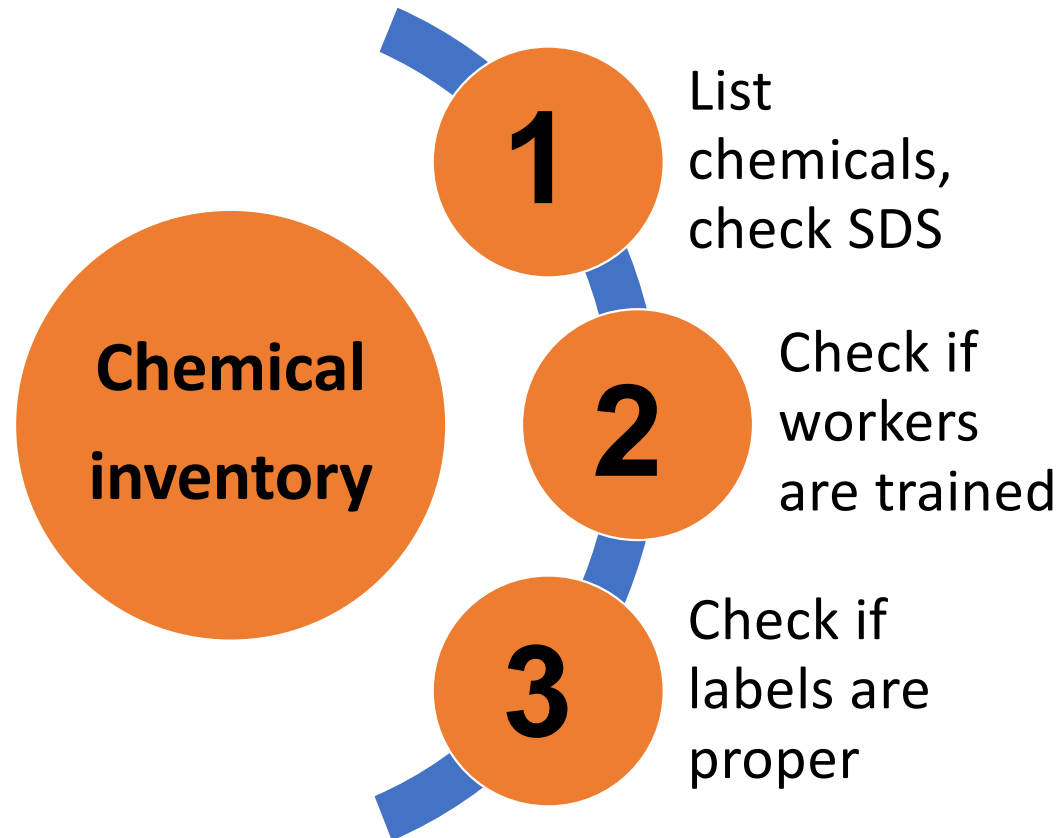
## Appendix A: an example of a floor diagram



# Information needed



# Information needed





- ✓ **Use checklists only as basic tools**
- ✓ **Might miss other hazards**

# Records and Reports

- important
- show what has been previously identified

- show areas inspected/not expected before
- do not simply copy or repeat previous results

- use older reports to look for new issues
- note if changes have been effective



# Checklists

Helps clarify inspection responsibilities



Controls inspection activities



Provides a report of inspection activities



# What to include in inspection checklist?

1	Environment	dust, gases, fumes, sprays, lighting, noise, ventilation
2	Buildings	windows, doors, floors, stairs, roofs, walls, elevators
3	Containers	scrap bins, disposal receptacles, barrels, carboys, gas cylinders, solvent cans
4	Electrical	switches, cables, outlets, connectors, grounding, connections, breakers
5	Fire protection equipment	extinguishers, hoses, hydrants, sprinkler alarm systems, access to equipment
6	Hand tools	wrenches, screwdrivers, saws, power tools, explosive actuated tools
7	Hazardous products	flammable, explosive, oxidizing, gases under pressure, corrosive, toxic/health hazards, biohazardous infectious, environmental



8	Materials handling	conveyors, cranes, hoists, hoppers, carts, dollies, bins, etc.
9	Personal protective equipment	hard hats, safety glasses, respirators, safety footwear, gloves, etc.
10	Pressurized equipment	boilers, vats, tanks, piping, hoses, couplings, valves, hydraulics, etc.
11	Production equipment	mills, shapers, cutters, borers, presses, lathes, robotics, etc.
12	Personnel support equipment	ladders, scaffolds, platforms, catwalks, staging
13	Powered equipment	engines, electrical motors, compressor equipment
14	Storage facilities	racks, bins, shelves, cabinets, closets, yards, floors
15	Walkways and roadways	aisles, ramps, docks, vehicle ways

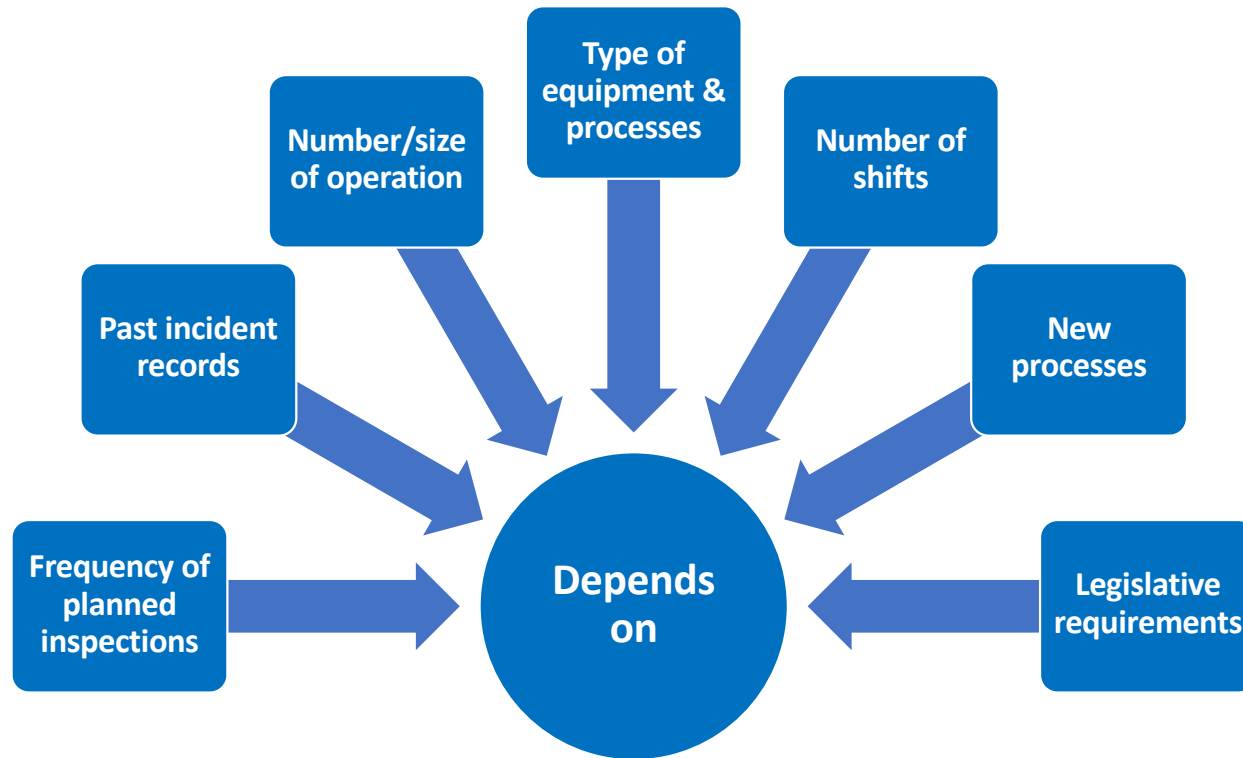




16	Protective guards	gear covers, pulleys, belt screens, work station, guards, railings, drives, chains
17	Safety devices	valves, emergency switches, cutoffs, warning systems, limit switches, mirrors, sirens, signs
18	Controls	start-up switches, steering mechanisms, speed controls, manipulating controls
19	Lifting components	handles, eye-bolts, lifting lugs, hooks, chains, ropes, slings
20	Hygiene and first aid facilities	drinking fountains, washrooms, safety showers, eyewash fountains, first aid supplies, contact list for first aid responders, etc.
21	Psychosocial hazards	discussion with or observation of employees who may mention work scheduling issues, workload (pace of work/too much/too little), hours of work, fatigue, issues that interrupt concentration, poor communication, conflicting demands, working in conflict with others, working in social isolation, or working alone



# Frequency of Inspections?



# How are inspections done?



- ✓
- ✓
- ✓
- ✓

**Determine the planned route**  
**Area assignment of team**  
**“Huddle” before going**  
**to noisy areas**  
**Wear PPE when required or**  
**needed**



# Observation



Look for deviations from accepted work practices

## Common poor practices

- ✓ Using equipment without authority
- ✓ Operating at unsafe speed
- ✓ Removing guards/safety devices
- ✓ Using defective tools
- ✓ Standing/working under suspended loads
- ✓ Overloading
- ✓ Improper lifting
- ✓ Poor housekeeping



# Inspection Principles

- ✓ Draw attention to the presence of any immediate danger - other items can await the final report.
- ✓ Shut down and "lock out" any hazardous items that cannot be brought to a safe operating standard until repaired.
- ✓ Do not operate equipment. Ask the operator for a demonstration.
- ✓ Look up, down, around and inside. Be methodical and thorough.
- ✓ Clearly describe each hazard and its exact location in your rough notes.



# Inspection Principles

- ✓ **Ask questions, but do not unnecessarily disrupt work activities.**
- ✓ **If a machine is shut down, consider postponing the inspection until it is functioning again.**
- ✓ **Consider factors such as how the work is organized or the pace of work and how these factors impact safety.**
- ✓ **Determine, with the team, what corrections or controls are appropriate.**
- ✓ **Take a photograph if you are unable to clearly describe or sketch a particular situation.**



# The Inspection Report

- ✓ write down the observed unsafe conditions and behaviors
- ✓ recommended methods of control
- ✓ Enter the department or area inspected, the date and the inspection team's names and titles on top of the page



Inspection Location: \_\_\_\_\_ Date of Inspection: \_\_\_\_\_  
Department/Areas Covered: \_\_\_\_\_ Time of Inspection: \_\_\_\_\_

# The Inspection Report

- ✓ State exactly what has been detected and accurately identify its location.

***Instead of stating "machine unguarded," state "guard missing on upper pulley #6 lathe in North Building."***

- ✓ Assign a priority level to the hazards observed to indicate the urgency of the corrective action required.

For example:

A	Major	requires immediate action
B	Serious	requires short-term action
C	Minor	requires long-term action



# The Inspection Report

- ✓ Report issues in a concise, factual way.
- ✓ Management should be able to understand and evaluate the problems, assign priorities and quickly reach decisions.
- ✓ After each listed hazard, specify the recommended corrective action and establish a definite correction date if possible and appropriate.
- ✓ Review for accuracy, clarity and thoroughness.



**Correct the  
problems**

**Spot  
opportunity  
to improve**

**Discovers  
other  
dangerous  
conditions**



**FOLLOW UP INSPECTION  
WHERE IT COUNTS**





Do you have  
any  
Questions?