

Bruce Ennis

LEAN SIX SIGMA MASTER BLACK BELT AND MEE PROCESS IMPROVEMENT GURU

Bruce is a Quality Management Professional with thirty years experience in the field of Quality, Process Improvement, and Lean. he's been recognized for his accomplishments in Lean by being invited to present at the American Society for Quality's (ASQ) Global Lean Summit and has published a white paper through the ASQ as well.

Bruce is a certified Lean Six Sigma Master Black Belt and Senior Member of the American Society of Quality. He has created Lean programs that have dramatically improved the speed, quality, and profitability of numerous businesses from a wide variety of sectors—aeronautics, manufacturing, petroleum, administration... and even professional sports management.

Bruce has consulted for multi-million dollar conglomerates down to small family owned businesses and is passionate about supporting local manufacturers in process improvement.





Part II:

Launching a

Successful 5S Program





Part I:

Why 55 Matters

June 13, 2023 – Webinar

Oct 13, 2023 – New Westminster

What is 5S?



Cleaning and Organizing program

Started at Toyota



Practiced worldwide





When You See 5S – You Know It STEP LADDER PORTABLE STAIRS





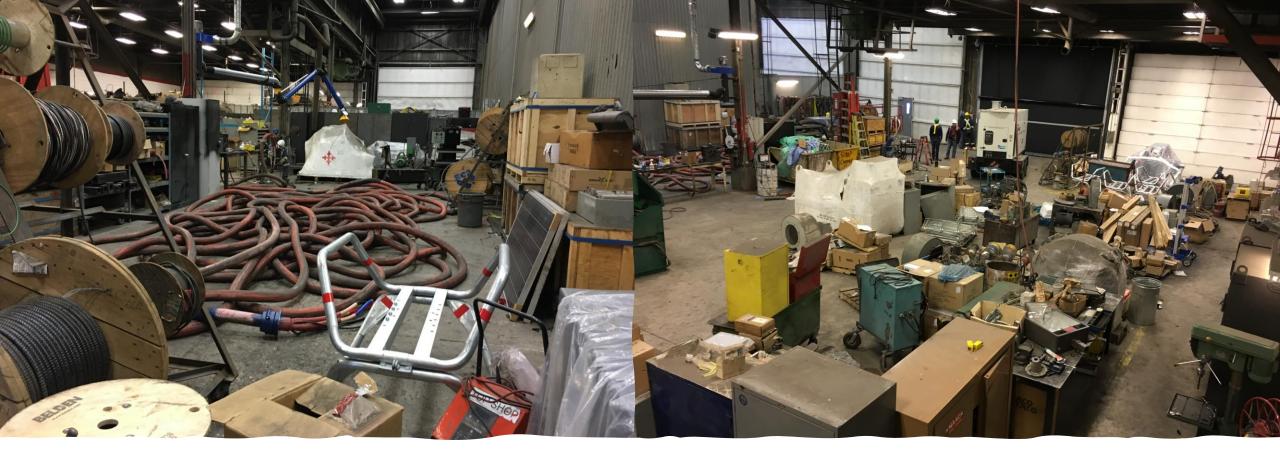






Slips & Trips





Congestion





Five Reasons for Implementing 5S

- 1. First impressions matter
- 2. Improves productivity 25-50%
- 3. Improves mental health
- 4. Reduces fatigue
- 5. Improves safety



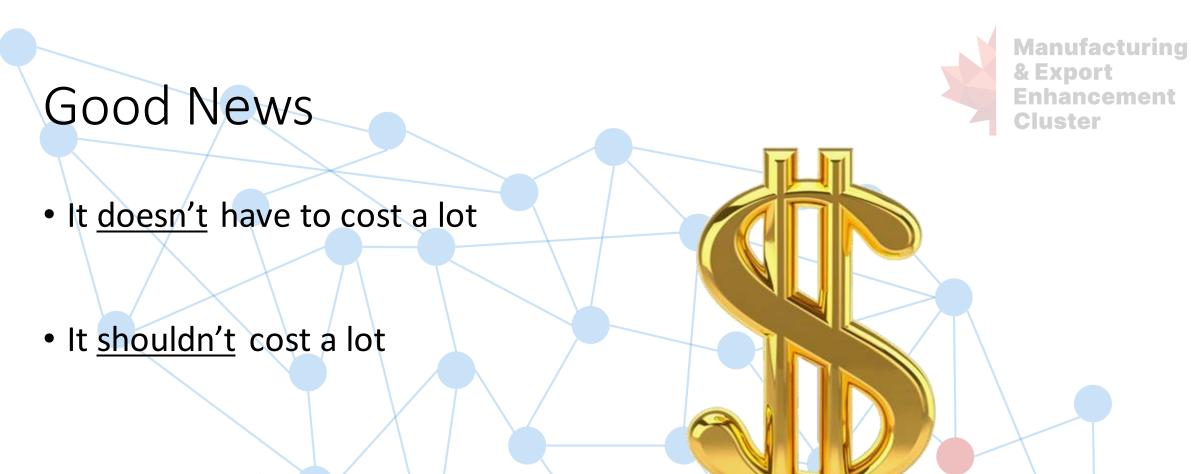




Part II:

Launching a

Successful 5S Program

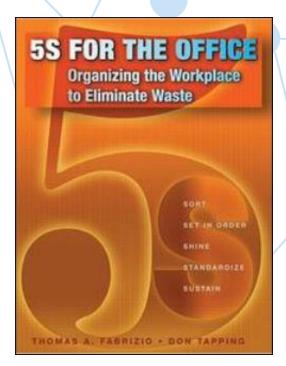


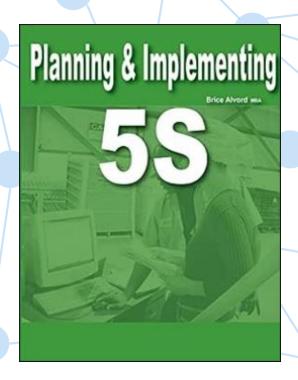
• It can cost a lot

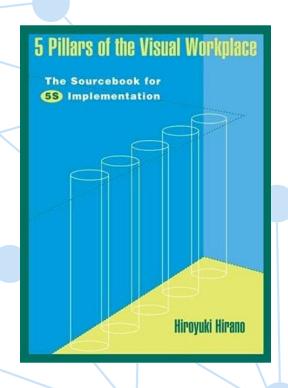


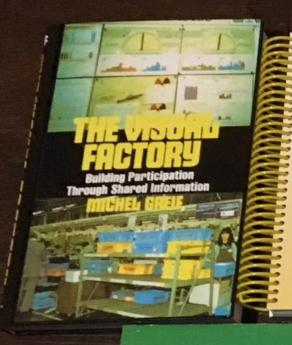
Manufacturing & Export Enhancement Cluster

Read a few books









VISUAL WORKPLACE VISUAL ORDER

ASSOCIATE HANDBOOK



YOUR NAME

CORRESPONDENCE OF THE PROPERTY OF THE PROPERTY

VISUAL WORKPLACE VISUAL THINKING



THE TECHNOLOGIES OF THE VISUAL WORKPLACE

GWENDOLYN D. GALSWORTH

INSIGHTS ON IMPLEMENTATION

VISUAL TOOLS

COLLECTED PRACTICES AND CASES

PRODUCTIVITY PRESS

Visual Controls

Applying Visual Management to the Factory

Chris A. Ortiz Murry R. Park

Operator-Led Visuality



FINAS

Planning & Implementing

Brice Alvord MBA

55

THE PRODUCTIVITY PRESS DEVELOPMENT TEAM

SS for Operators S PILLARS OF THE VISUAL WORKPLACE

5S

A Visual Control System for the Workplace



Makes Sense

Work

Creating and Sustaining Visuality on the Value-Add Level

Edward Moul

Better Suggestion...

GWENDOLYN D. GALSWOI19H

55 Training the MEE Cluster Way

Manufacturing & Export Enhancement Cluster

Simple

Fast

Inexpensive

• It works

Manufacturing & Export Enhancement Cluster

More about this at the end of this slide presentation...

Steps For Starting a 5S Program



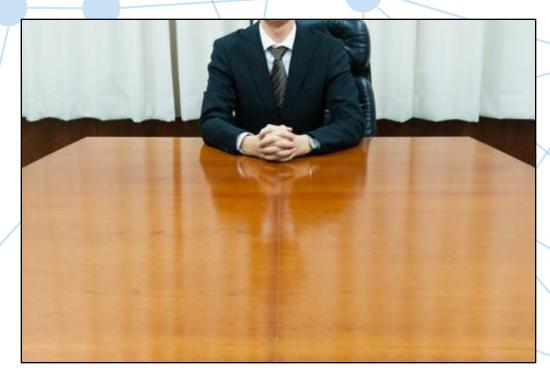




Don't start if management isn't "all in"

5S everyday

No exceptions



2. Train All Employees

Train the entire site

• 100% participation.



Manufacturing

Enhancement

& Export

Cluster



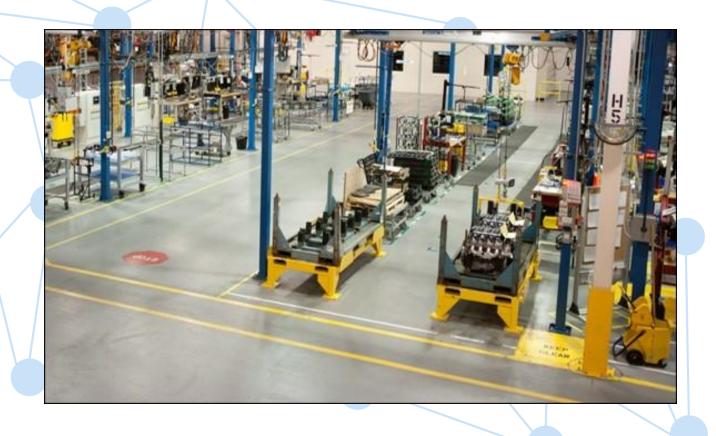


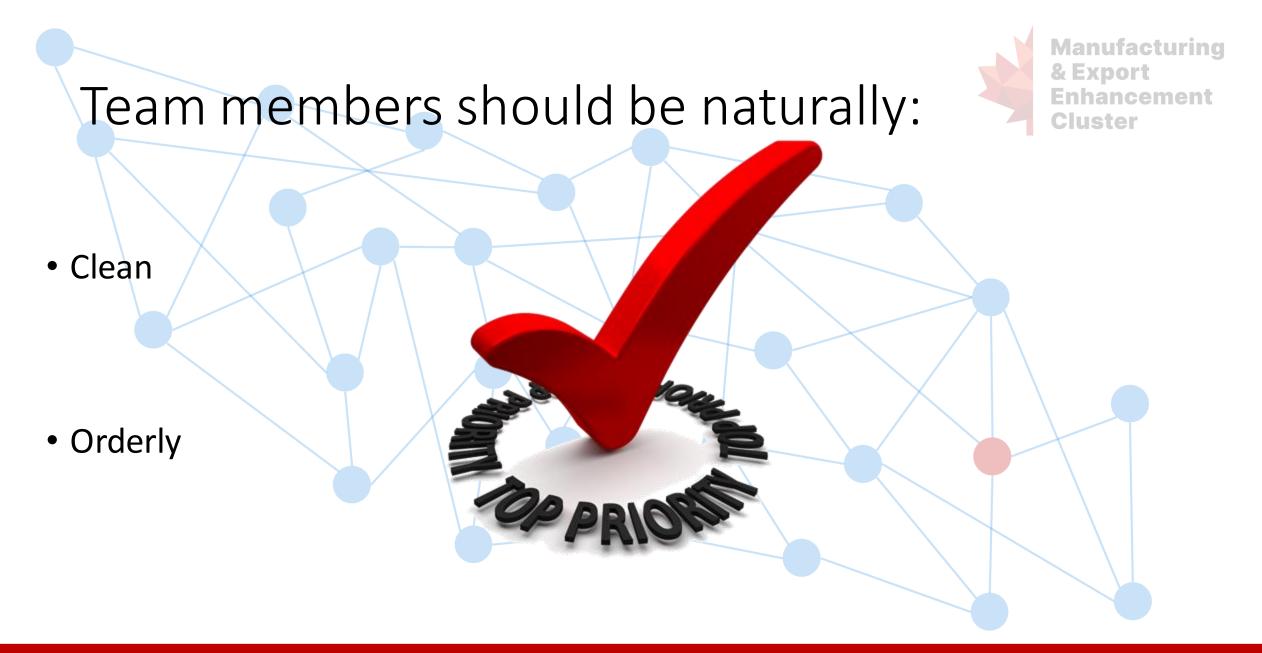


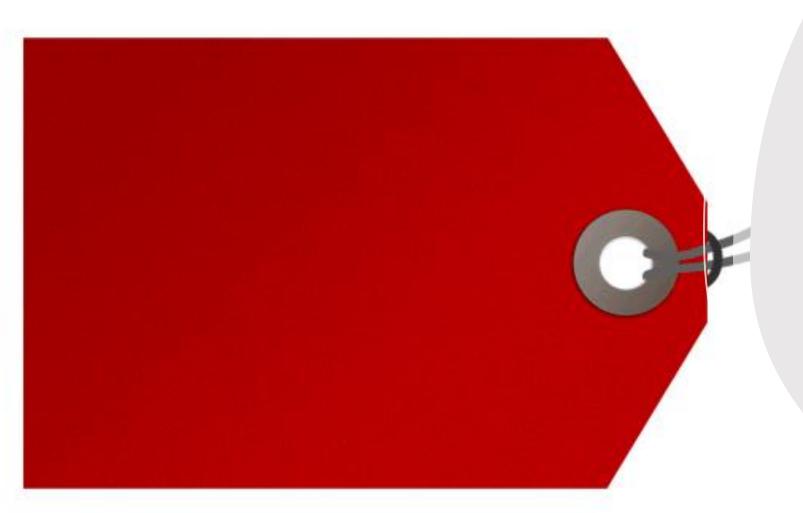
One Person From Each Area



- Office
- Receiving
- Machining
- Welding
- Assembly
- Maintenance
- Paint Area
- Etc...





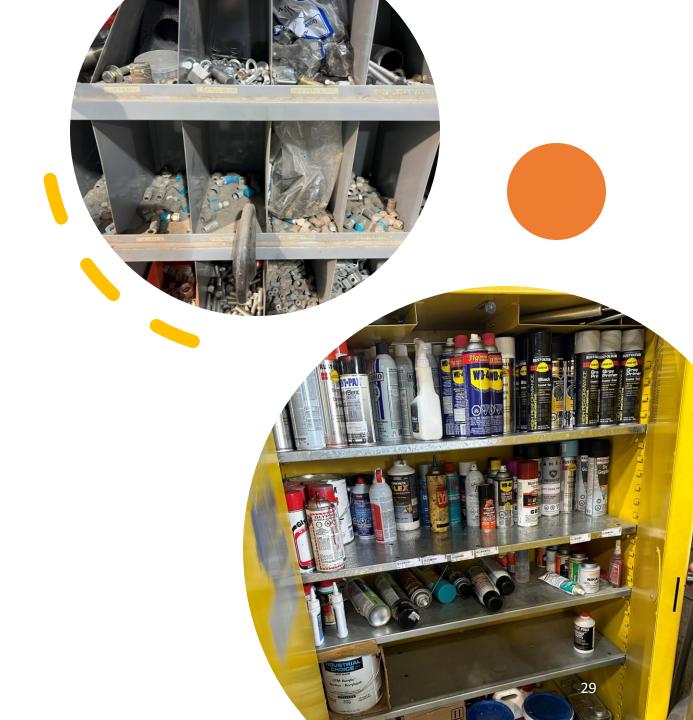


4. Complete a "Red Tag" Event



Red Tag = Get Rid of Junk

- ✓ Cabinets
- ✓ Drawers
- ✓ Paint storage
- ✓ Racks & Shelves
- ✓ Office area
- ✓ Everywhere!







Eliminate wasted movement

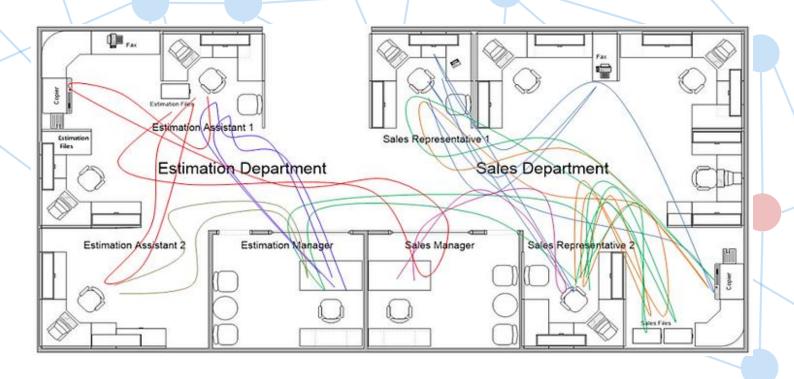
- Root Causes?
 - ➤ No power outlet
 - ➤ Shared equipment
 - ➤ No Lean training





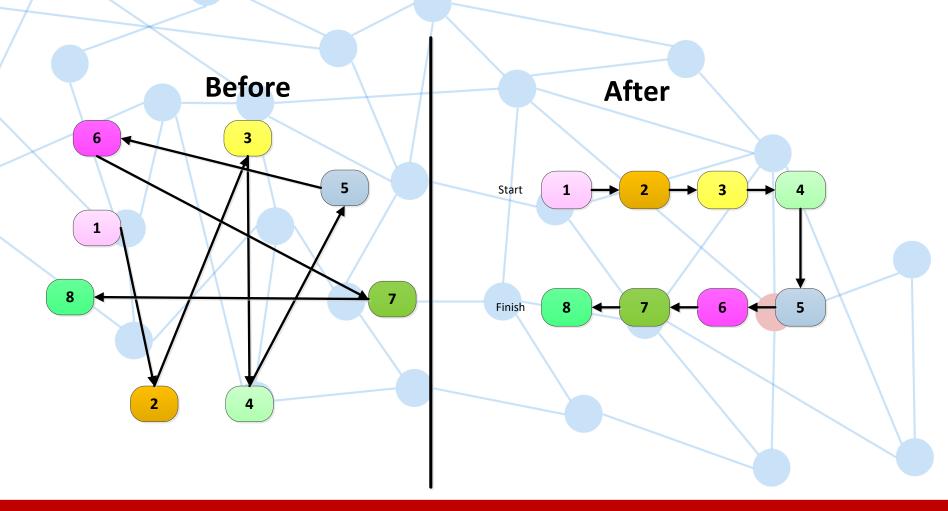


Spaghetti Map





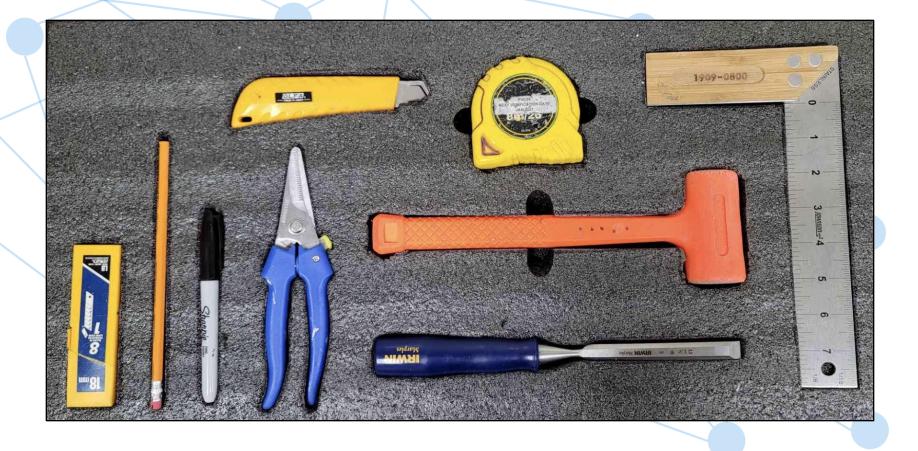








Tools



Kaizen Foam



Create "Homes" for Everything

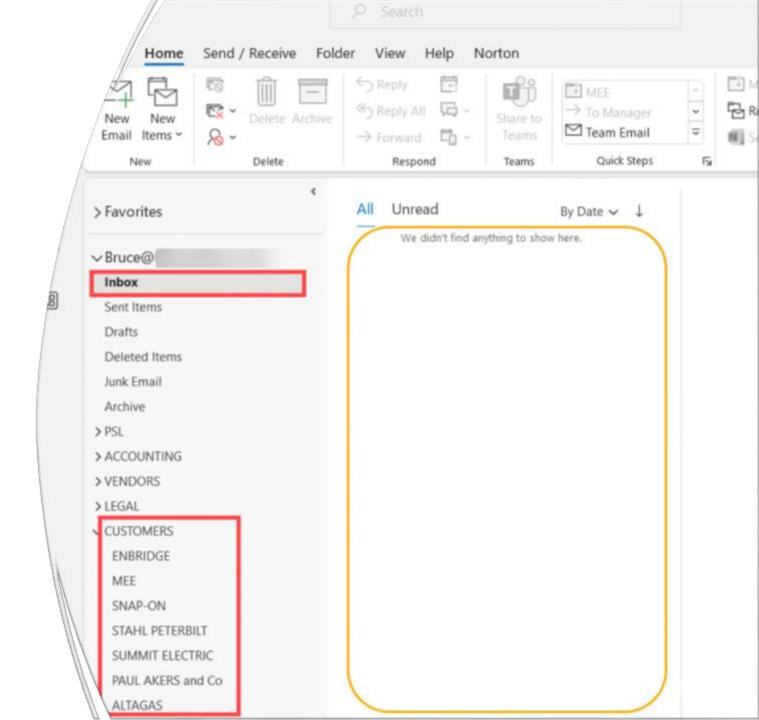




Create "Homes" for Everything



Create "Homes" for Everything



Tape the Floors







Floor Tape

- Much better than paint
- Quality Matters!
- Expensive but worth it

7. Create Cleaning Checklists



• Checklists drive:

✓ Accountability

√ Consistency

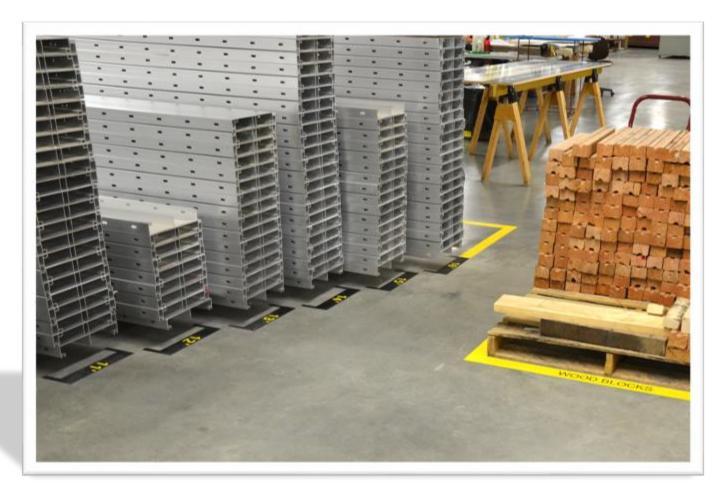
		5S DAILY CLE	ANING C	HECK	LIST				1X / day	1X / week	1X / mo.	
	5S LEADER - DAY			5S TEAM - DAY		BE, TH, BW, TW, JV, BM, VG, IM						
	5S LEADER - NIGHT	Kerry			5S TEAM - NIGHT		SL, DE, WP, SH, TS, GS, LS					
	Install Area	Week of May 8, 2023										
		Description	When		Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	Jigs - all jigs returned to their home		AM + PM	AM								
				РМ								
\	Tools - all tools returned to tool box	AM + PM PM AM + PM PM	+	AM								
				РМ								
	Air hose - wound up											
	an nose - would up			РМ								
	Table - cleared of all		AM + PM	AM								
	mullions, debris			РМ								

8. Begin Cleaning Every Day

No exceptions

- EVER

A condition of employment



9. Institutionalize

Institutionalize

Institutionalize

Institutionalize

...Part of your company's DNA



55 Training the MEE Cluster Way





5S Training

Manufacturing & Export Enhancement

- 1 day class
- Everything on a flash drive



FIC	Aisle ways, traffic lanes and work cells Equipment and fixtures not otherwise color coded Equipment and fixtures not otherwise color coded					
llow	Aisle ways, trame Aisle ways, trame Equipment and fixtures not otherwise color codes. (workstations, carts, floor stand displays, racks, etc.) (workstations, carts, floor stand displays, racks, etc.)					
hite	Materials and components, including work-in-progress and finished goods					
lue, Green nd/or Black						
Orange Orange	Materials or products Here Defects, scrap, rework and red tag areas Defects, scrap, rework and red tag areas Steps and perimeter demarcation to identify egress Steps and perimeter demarcation to identify egress					
Red	Steps and perimeter demergency					
Photoluminescent	Areas to be kept clear for lands, firefighting					
Red and White	equipment and safety equipment aid stations) stations, safety showers and first aid stations)					
	Areas to be kept clear for operational (not related to safety and compliance) (not related to safety and compliance) Areas that may expose employees to special physical					
Black and Yellow	Areas that may expose or health hazards					
Black and Ton						



MEE Cluster



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