## MCAA | SMACNA | TAUC **SAFETY & HEALTH** CONFERENCE **SPONSORED BY** SUMMITS SPONSORED BY PROCORE" & CNA







### or Oh, Crap! OSHA is on the way!



### **Rebecca Medaris**

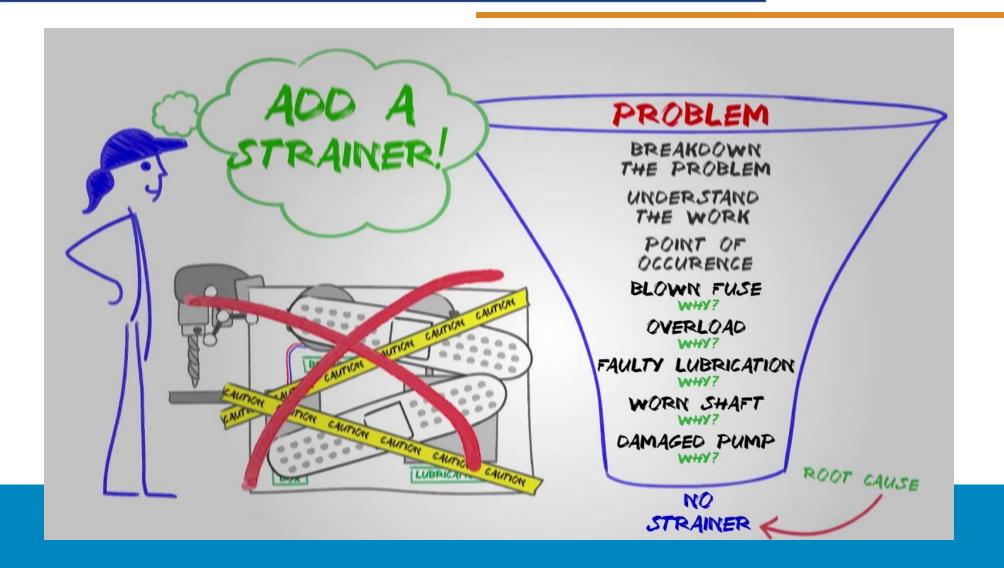
Director of Risk Pan-Pacific Mechanical

## I'm on the run! Call me at (949) 123-4567





## The history



SAFETY & HEALTH CONFERENCE

## Easy answers

In safety, we can always blame the person:

- He did something stupid (against procedure, he knew better)
- He needs more training
- He should wear more/different PPE

If we ONLY blame the person, we will never get better.

To get better, we need to blame the system and find a way to fix it.



## The five whys

- 1. Do your investigation. . . get a team. . . get all points of view
- 2. Put together the right problem statement
- 3. Ask WHY five times (or more or less) to get to the root cause of a problem?
- 4. Determine the Root Cause (or Root Causes)
- 5. Put together a Corrective Action Plan (Countermeasure) based on your Root Causes.



## The Wrong Ways

## Knowing the answer

- If we have already come to the conclusion, the "facts" will show us we are right:
- The gentleman was standing in the wrong spot and we had talked to him about situational awareness before



### Knowing the answer



#### Five Why's Root Cause Analysis/Corrective Action Plan

At 0645L PPM plumber installing band on stainless steel pipe
cut finger when the band slipped causing a laceration to left index finger.
Q: Why did hand slip off band?
A: Shield was too tight and was being forced instead of loosing it.
Q: Why didn't he loosen it?
A: Didn't re-evaluate conditions.
Q: Why didn't he re-evaluate conditions?
A: He was moving too fast.
Q: Why was he moving too fast?
A: Trying to get the job done.
Q: Why did he cut his finger?
A: Did not check for changing conditions wrong cut level glove
for the task.
1. PPM team should have had proper cut level 3+ gloves
and pre-tested prior to conducting work.
2. Additionally, PPM personnel was trying to meet a
deadline instead of properly loosening the band.
3. New material was introduced to the plumbers without
proper prior evaluation.
1. PPM to provide proper cut level gloves for the task per
the manufacturer recommendation.
<ol><li>PPM to remind personnel to slow down and re-think all changing conditions.</li></ol>
3. PPM team to evaluate all new material prior to use.



### The guy knew better

Problem: I was late for work 1 Why? My alarm didn't go off 2 Why? I didn't set my alarm the night before 3 Why? I was too tired 4 Why? I had had a long day 5 Why? Too many things to do and not good planning Root Cause: I do too much stuff in a day and wear myself out **Corrective action:** Do less stuff



### The guy needs more training

**Problem:** I was late for work 1 Why? My alarm didn't go off 2 Why? I didn't set the alarm the night before because I was too tired 3 Why do I have to set my alarm each day? I don't know how to program my phone Root Cause: My alarm is not programed **Corrective action:** Learn to program my alarm and get it set



### Easy problems

Problem: I was late for work 1 Why? I overslept 2 Why? My alarm didn't go off **3 Why?** We lost power in the night Root Cause: My alarm is dependent on power Corrective action: Use my phone as a secondary alarm



### Multiple answers

Problem: I was late for work 1 Why? My alarm didn't go off And My car battery was dead And There was a wreck on the way And The elevator was down **Root Cause:** My life sucks! **Corrective action:** Have better luck



# Multiple problems

Alarm: Why? Lost power Why? Connected to power grid RC: Alarm is dependent on power CA: Have redundant alarm

Car Battery: Why? Over 7 years old Why? I don't remember maintenance RC: Old battery CA: Verify age of battery; replace battery every 7 years

Traffic delayed me: Why? I never plan my route based on traffic Why? Habit RC: Only one route of travel CA: Check Waze before leaving

Elevator: Why? Hate taking the stairs Why? Out of shape Why? Rely on the elevator RC: Out of shape CA: Take the stairs more often

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# Accident Investigation Escape Room

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