



Spill Hotwash

Debrief of what went right
and what we would
change

Lifecycle of Spill Response



Preparedness Cycle



Why debrief?

- The key to building a thriving learning organization is to ensure that knowledge is shared, understood, applied and deployed rapidly throughout your company.
- This is not a fault/blame session, this is for improvement of our system.

Brainstorming – just brainstorming

1. **What went well?**
2. **What didn't – why?**

Five Why's – Toyota Method

- Ask Why five times –
- Example
 - Why did the robot stop?
 - The circuit has overloaded, causing a fuse to blow.
 - Why is the circuit overloaded?
 - There wasn't sufficient lube on the bearings.
 - Why was there insufficient lubrication on the bearings?
 - The oil pump on the robot is not circulating.
 - Why is the pump not circulating sufficient oil?
 - The pump intake is clogged with metal shavings
 - Why is the intake clogged with metal shavings?
 - Because there is no filter on the pump.

Become a five why's Master

- Today its used far beyond Toyota and its popular in lean manufacturing theories.
- How it works: It originated from engineering and everyone knows that engineers rock. Ok just kidding.
- How it really works: It helps a team create small, incremental steps so that the same issues don't recur.

Review Steps

- 1. Why was there a difference between what we expected to happen and what did?**
- 2. What organizational constraints or barriers did we face? How did we overcome them or did we?**
- 3. What existing organizational models or processes enhanced or enabled our performance on this project?**

Review Continued

- 4. Could time pressures have been alleviated by organizing the work differently?**
- 5. Could we have taken another approach to reach our spill clean up goals more efficiently and effectively?**
- 6. How can we do better next time?**

Preparedness Cycle

