Lean Tool - 5 Why Analysis



Purpose

Identification and Analysis of Root Cause

Application

 When you need to implement corrective action of a problem and want to be sure your actions will address the Root Cause and not just the symptoms of the problem

Methodology

- Question "Why" a given situation exists or condition has occurred
- Document the response
- Evaluate the documented response asking "Why" did this happen or "Why" is this true
- Document the response
- Repeat the process until root cause for original problem is determined

Lean Tool - 5 Why Analysis

The stone on the Jefferson Memorial was crumbling

1) Why was it crumbling?

Too frequent washings were causing the stone to crumble.

- 2) Why was it washed so often?
 - To remove bird droppings
- 3) Why were so many birds at the building?

There is an abundant food supply: hundreds of little fat spiders

4) Why are there so many spiders?

Spiders were attracted to the midges.

5) Why were there so many midges?

Every evening at dusk they emerge in a mating frenzy. At the same time the Park Service turns on its powerful spotlights. The midges are then attracted to the lights.

Solution: Delay the daily lighting to one hour after sunset. Midge population is down 90%, they have broken the food chain and there are less frequent washings.

HOW MANY OF US WOULD HAVE STOPPED TOO EARLY AND SOLVED A SYMPTOM RATHER THAN A ROOT CAUSE?