Root Cause Analysis Using 5 Whys

For Technology

Tight Technolo

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Why We Use Root Cause Analysis?

We use Root Cause Analysis (RCA) to find the root cause of semi complex to very complex problems in our workplace



How Do We Perform Root Cause Analysis?

A quick overview of how to perform RCA at workplace

Identify the Describe Identify the event to be contributing what identified happened factors Design & Control & Identify the India NJR Institutemplement

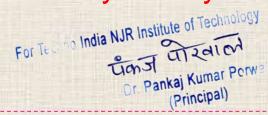
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Or Pankaj Kumar Measure of root cause Improvenfent Principal

What kinds of method available there to Perform Root Cause Analysis?



There are so many methods to perform root cause analysis, such as Failure Modes & Effects Analysis (FMEA); Fault Tree Analysis (FTA); Man, Method, Machine, Materials & Environment (4M+1E), and the easiest one is 5 whys analysis



5 Whys Analysis

5 Whys analysis is a simple process to understand any problem. 5 Whys analysis is an iterative interrogative technique used to explore the cause and effect relationships underlying a particular problem.



Benefits of 5 Whys Analysis

- 1. Easy to learn & apply
- 2. Find the root cause of the problem quickly





How to complete 5 Whys Analysis?

Write down specific problem

Ask why the problem happens

Ask why again until the root cause is found

Note: the process of asking why the problem happens can be fewer or name to times

Or Pankaj Kumar Porwal (Principal)

Example of Problem Solving Using 5 Whys Analysis (1st example)

What: Defect found in rubber compound caused by Foreign Material

(an operator gloves unexpected compund)

When: December 19th 2016

Who: Production Operator

Where: Kneader / Wixing area area Kumar Porwa

Why: Explained on the next slide



Rubber Compound for Car
Tyre

Why (continued)

Gloves still remains in the carbon black plastic container

The staff acts as double checker & no method for used glove disposal

Why did this happen?

Why can gloves be processed in the kneader?

Why the gloves still remain in the plastic container?

Why is the staff careless in cleaning the plastic container?

Why is there no method?

Gloves unexpectedly processed in the kneader

The staff is careless in ader cleaning of the plastic For Technological Pankaj Kumar Porwal (Principal)

No trash bins provided in the kneader area

Root Cause (continued)

The root cause for the problem → human error by the production operator which is triggered by no trash bin for gloves disposal.

Corrective Action: Cut and throw away the contaminated rubber compound, after that Remill the rubber compound in the kneader

Preventive Action: Provide trash bin in each kneader area for used gloves

disposal



Thank You

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Or. Pankaj Kumar Perwa

(Principal)

Refference

Here are the links you can find more about RCA:

https://www.cms.gov/Medicare/Provider-Enrollment-and-Certification/QAPI/downloads/GuidanceforRCA.pdf

https://www.isixsigma.com/tools-templates/cause-effect/determine-root-cause-5-whys/

