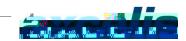
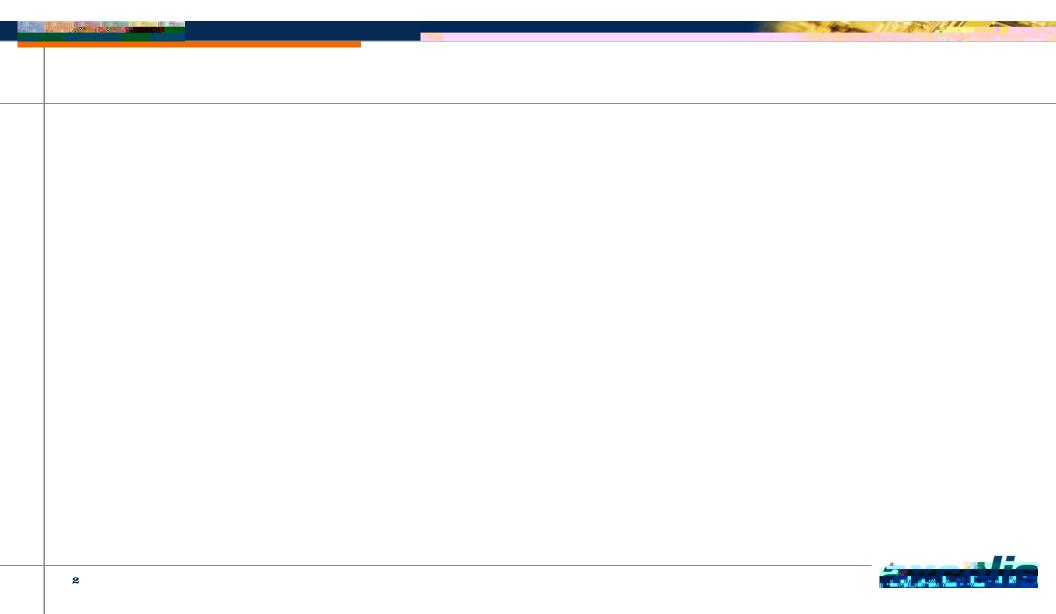
Supplier Quality Collaborative Efforts for Problem Solving SUPPLER MPROVEMENT COMMITTEE: COMMERSHIP NIIIAIME

July 23, 2020

QUALITY SYSTEMS

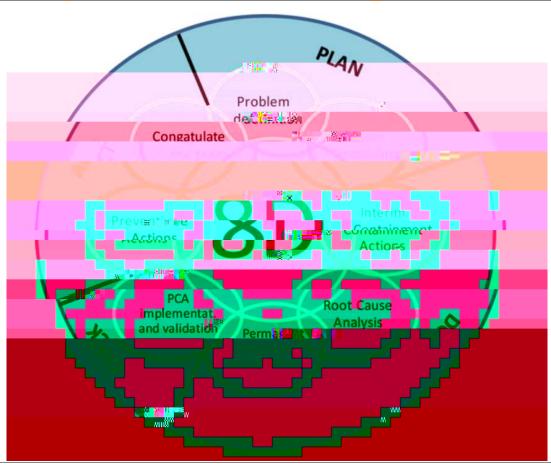




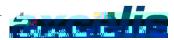
Purpose



8 Disciplines of Problem Solving PDCA Model



- D1 Define the Team
- D2-Describe the Problem
- D3- InterimContainmentActions
- D4-Root Cause Analysis
- **D5- Corrective Action(s)**
- D6-Verification&Implementation
- **D7- Preventive Action(s)**
- D8- Congratulate the team

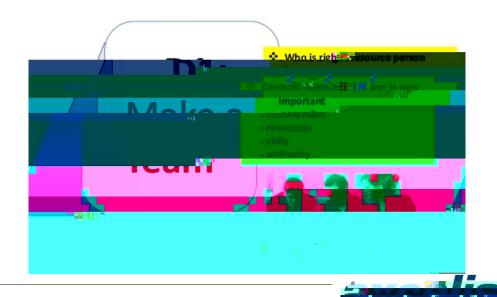


D1- Define the Team

It is imperative to have the right team to solve the problem Things that we must consider while defining the team to solve a problem are

The teamis cross-functional

The right Team Leader will drive the team to solve the problem efficiently and effectively. The team should not be more than 36 people unless the problem has an enormous scope.



D2 Describe the Problem

The key to success in problems olving is to have the right problem statement upfront. The excellent problem statement covers all the details in terms of

WHD

WHAT

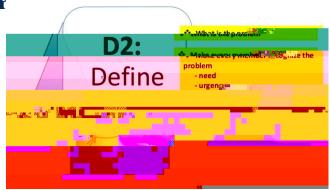
WHERE,

WHEN

WHY,

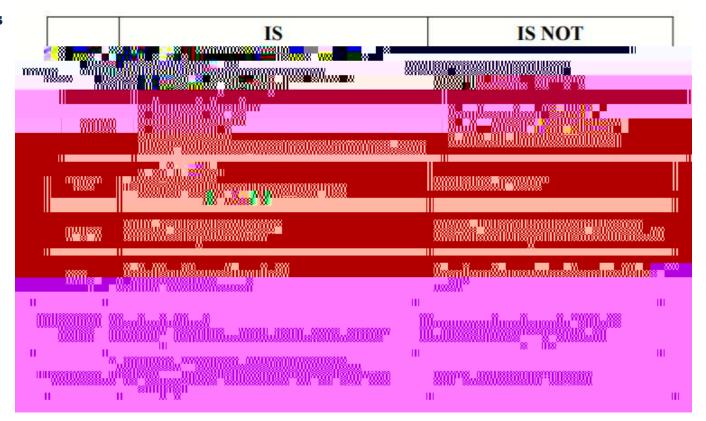
HOW&HOWMANY. Identify the gap that needs to be closed by solving the problem

Tools can turn out to be useful while defining the scope of the problem (See the next slide)

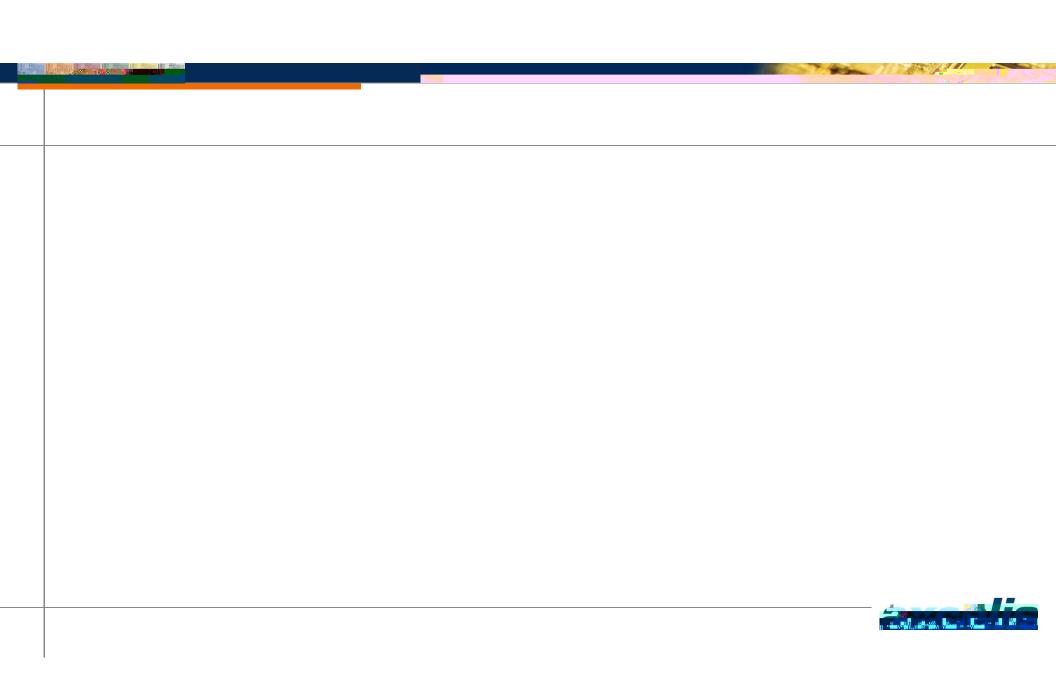


D2 Describe the Problem

Is / Is Not Analysis

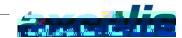




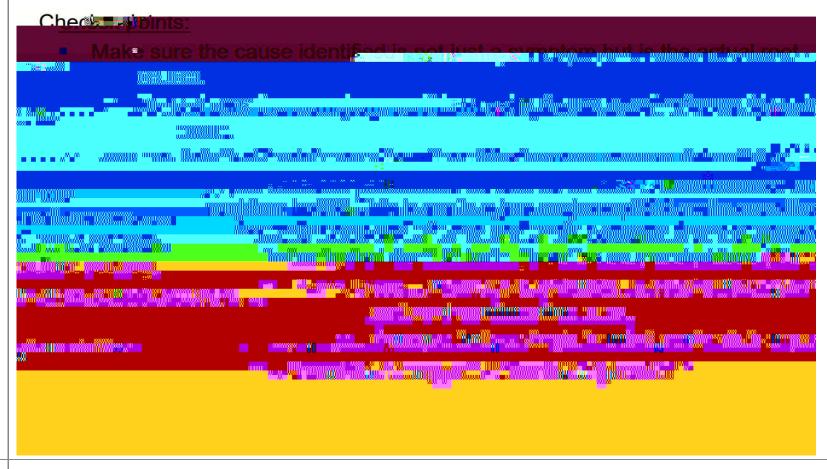


D4-Root Cause Analysis (Occurrence, Detection or Escape, System)

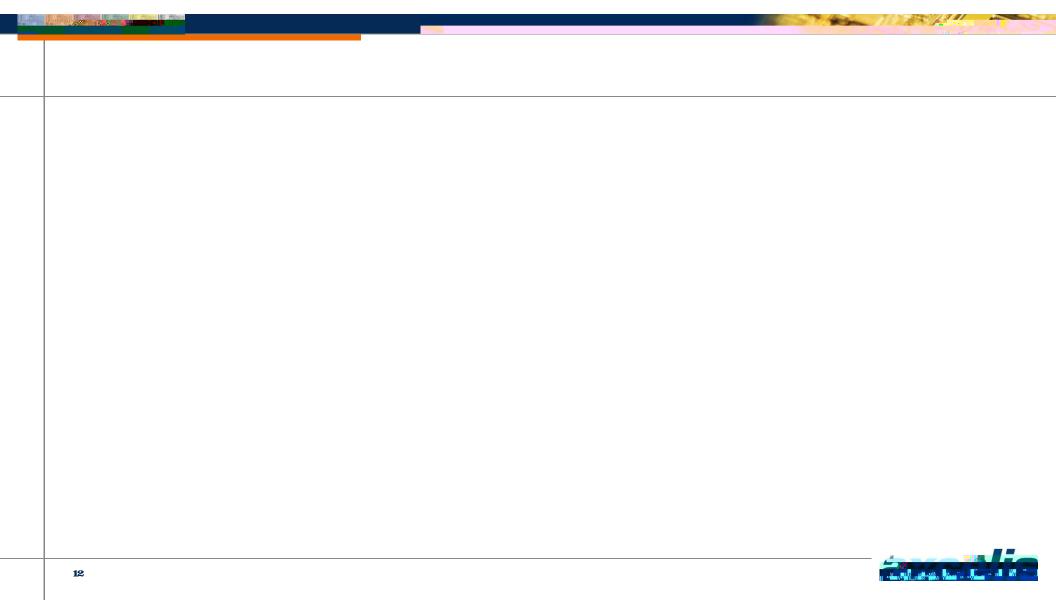




D4 Root Cause Analysis







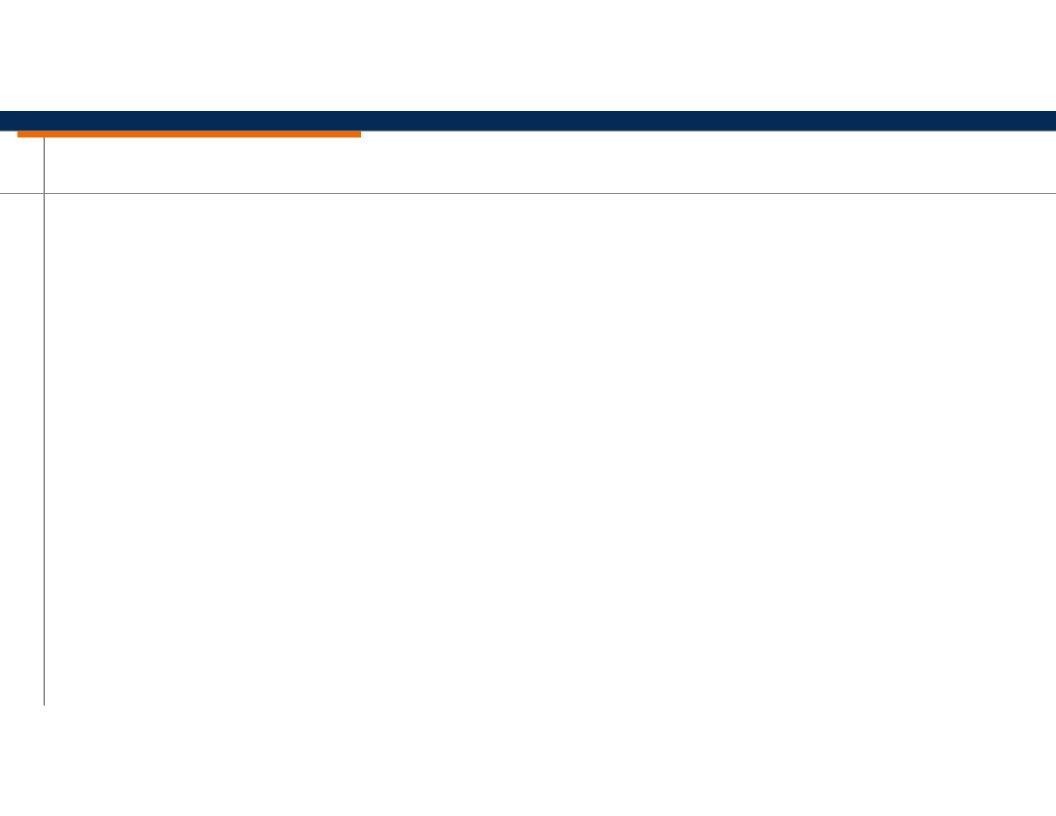
D4 Root Cause Analysis

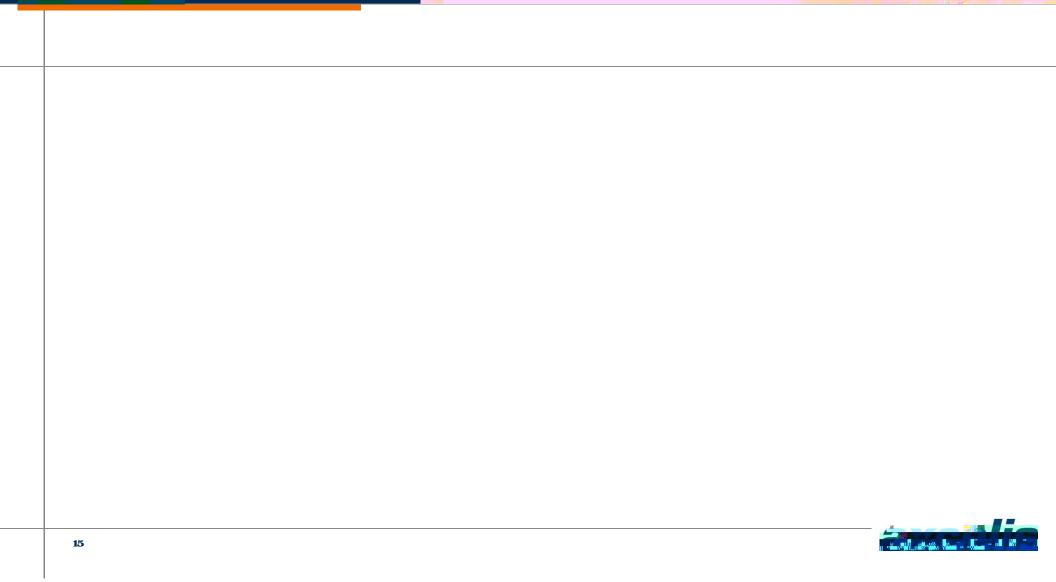
D4-Root Cause Analysis (Occurrence, Detection or Escape, System)

Here is an example which shows how it works:



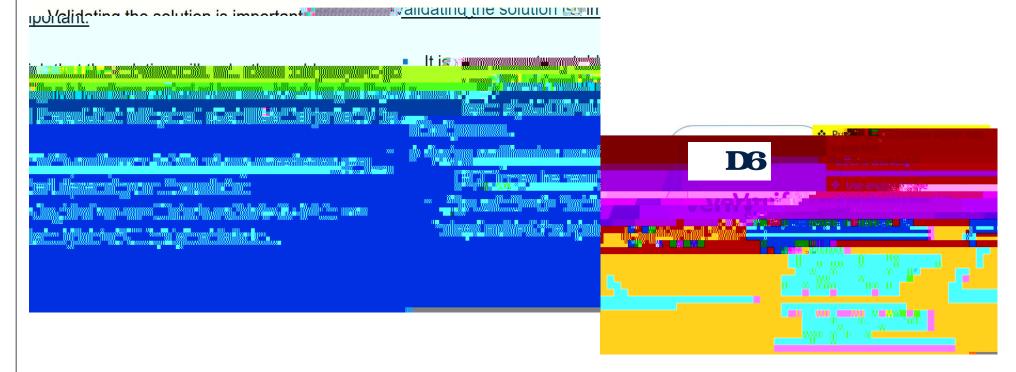






D6- Verification of Corrective Action(s)

For a team to "declare victory" in resolving a problem, there needs to be a verification and validation of the corrective action(s). The team needs to ensure that the actions taken were adequate.





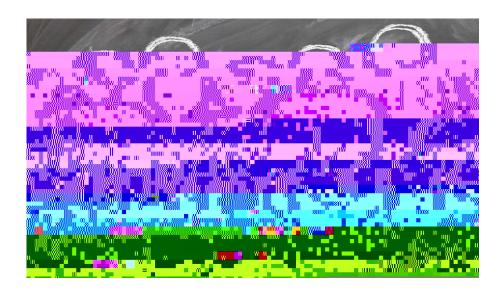
D7- Preventive Action(s)

- Once a team has identified root cause(s) and connective actions, it is highly desirable that activities occurred that a
 customer cannot encounter the same or similar problem from an Axcelis product or service
- Preventive action is a change to a product or management system that is not yet responsible for causing a problem for a customer
- The teamshould list preventive action investigation steps and any actions taken to mitigate potential issues
- Preventive actions could include:
 - Investigating (and mitigating if appropriate) if the problem observed could occur on other areas of the same product
 - Investigating (and mitigating if appropriate) if the problem observed could occur on a different product
 - Investigating (and nitigating if appropriate) if the process problem could occur in other processes
 - Actions were taken to mitigate issues discovered during the investigation process that may not affect the issue being investigated, but another issue that could have occurred



D8- Congratulate the Team

Depending on the scope of the problem resolved, this "D" can be accomplished as the Teamleader sending out a "thankyou" e-mail to the teammenbers or could be more formal, with more management recognition.



Basedinoiginal presentation from Karan Malhotra - Jul 23, 2020

