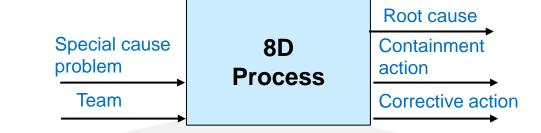
The Eight Disciplines of Problem Solving (8D)

ProblemDifficultyHow to solve a special
cause problem?Work with
an SME

- The 8 Disciplines, also known as the 8D process, is a teamoriented approach to correct recurring problems.
- 8D has more complexity than the PDCA (plan-do-check-act) approach and less complexity than six sigma's DMAIC.



- 1. Select the problem to be addressed
- 2. Execute the classic 8D steps (with D0 added):
- D0: Prepare and plan for 8D.
- D1: Select a knowledgeable team.
- D2: Quantify the problem: who, what, where, when, why, how, and how many.
- D3: Develop and implement a containment plan to isolate the customer from the problem.
- D4: Determine the problem root cause(s).
- D5: Identify the corrective actions and test.
- D6: Implement the corrective actions.
- D7: Take preventive measures to prevent recurrence of this and similar problems.
- D8: Congratulate the team.

8D – Example – Illustrative "8D Report"

Example: 8D Customer Complaint Resolution Report

| Report Title: Healthy (| Community Coal | ition (HCC) |) Meeting Ir | nprovement | Report | #1 | | |
|--|---|---|---|--|--|----------------------------------|--------------------------------|--|
| Dates: | Customer | 3/15/17 | Report | 3/22/17 | Report | | 8/15/17 | |
| 3/15/17-8/15/17 | Complaint: | | Initiated: | | Comple | ted: | | |
| Customer: | Jane Doe, HCC Member | | | Program/D | ivision: | Health | Promotion | |
| 1D – Team Member | rs | | | | | | | |
| Role | Name | | | | I Contact | | | |
| Leader | | Jane Eyre | | jeyre@examplehd.com | | | | |
| SME | | Atticus Finch | | afinch@examplehd.com | | | | |
| | Champion/Sponsor Kinsey Millhone | | | kmillhone | @example | hd.com | | |
| 2D – Problem Desc HCC is responsible for | | | | | | | | |
| of frustrations about the timely agendas. Further updates instead of me included frustration the effective way to make 3D – Interim Conta 1. Kinsey immediate looking into what of | er, the programi, eaningful presen at this coalition f progress on ser inment Actior ly replied to the | ng for meet tations, sha eels more l rious comm ns (who, ta | tings seem ared learnin like a coffee nunity healti akes what | ed last minut g and conne e klatch (soc h concerns. action, by v | e – and m cting. The ial chitchat vhen) | ostly cor compla), rather | mmittee int also than an | |
| Kinsey initiated the Kinsey will provide prior to the next H Jane will cancel the process. | e 8D process to e a more detaile CC meeting. ne April HCC me | d update oi | n the proble | m-solving p | rocess upo | | | |
| Kinsey initiated the Sinsey will provide prior to the next H Jane will cancel the process. AD – Root Cause A | e 8D process to e a more detaile CC meeting. ne April HCC me nalysis | d update oi | n the proble | em-solving p ate time to i | rócess upo nitiate an ir | | | |
| Kinsey initiated the S. Kinsey will provide prior to the next H Jane will cancel the | e 8D process to e a more detaile CC meeting. ne April HCC me nalysis | d update oi | n the proble | m-solving p | rócess upo nitiate an ir | | | |

| What needs to be done? | Who must be involved? | ' By when? | How will success be measured? | | |
|---|--|---|--|--|--|
| 1.Effective meeting training for staff | Kinsey, Jane | April 15 | Pre-Post Assessment | | |
| 2. Develop a coalition program design team | Jane and 2-4 community partners, including complainant | May 1 | Agenda, participation, minutes, attendance at meetings | | |
| 3. Coalition assessment | Atticus | June 15 | Assessment report shared with coalition, July meeting | | |
| 4. Coaching/mentoring for Jane | Jane, coalition/QI consultant | Every 2 weeks for 2 months | Kinsey consultation with key partners in late July | | |
| 6D – Implement and Valid | ate Corrective Action | | | | |
| Solutions Implemented: | Results: | | | | |
| Contracted for effective meeting training & facilitation skills | All staff leading and participating in community coalitions now have shared expectations about agendas, design teams, minutes, planning/execution/follow-up. | | | | |
| Identified an internal coalition coach for Jane | and now exceeds expected | tions. | expectations of external clients | | |
| Coalition Assessment developed, administered & Analyzed | Discovered new opportunities to improve and learned that most partners are very happy with their level of engagement. | | | | |
| Jane, with help from Kinsey, created an HCC Design Team. | More partners are sharing the work and feeling ownership in the effectivenes of the meetings. Jane is building deeper relationships with community partners. Attendance has increased. Agendas and minutes are available for all meetings on the coalition website. | | | | |
| Customer Notification | | Key Messages | Completion Date: | | |
| Customer was included in coalition program design team | | Customer participation is key to process improvement | 8/1/17 | | |
| 7D - Preventive Action (pe | olicy/procedure change | , training protoco | l, etc.) | | |
| Action Taken | | Completion Date: | | | |
| Added a training plan to the agent workforce development plan for both 1) effective meetings and 2) meeting facilitation (with criteria for selecting staff who must complete at least every two years). | or | | 8/15/2017 | | |
| Adopted a policy, procedure, and schedule for coalition assessment (for customer satisfaction data collection) method for all agency supported coalitions. | Atticus | | 8/15/2017 | | |
| 8D – Team and Individual | Recognition | | | | |
| Jane, Kinsey, and Atticus com will be posted in the agency fo department newsletter focusin relationships. | r the month September. | A feature story was | shared in the | | |

From http://www.phf.org/resourcestools/Documents/8D_Customer_Complaint_Resolution_Report.pdf (with permission)

8D – Notes

Slide 1

- 8D focuses on variation due to special causes, that is, solving a specific problem. Six Sigma focuses on common cause variation, and improving capability.
- 2. Goals of the 8D process include:
 - A. Quickly responding to a customer complaint (e.g. a failed component at the customer site).
 - B. Addressing steps D0 through D3, and reporting to the customer, within three days.
- 3. Benefits of 8D include
 - A. It is simple and effective.
 - B. It includes root cause analysis, which should prevent the specific problem from arising again.
 - C. It uses a cross-functional team.
- 4. Use of 8Ds is standard in the automotive industry.

Slide 2

- 1. An 8D report documents the results of each step in the 8D process.
- 2. The example shown was taken from a web site.

Recommended web sites for more information

- https://www.rolls-royce.com/~/media/Files/R/Rolls-Royce/documents/sustainability/value-chaincompetitiveness/9-vcc-how-to-carry-out-problem-solving.pdf
- http://www.phf.org/resourcestools/Documents/8D_Custo mer_Complaint_Resolution_Report.pdf