

Creations Mission Statement:

We provide the solution of choice for customers requiring a focused and responsive design and manufacturing partner for medium-volume, complex electronic products.



Creations Expectations

We have developed the following training reference to explain our expectations for corrective actions and give guidelines to ensure corrective actions are robust.

This document is for reference only and does not supersede official communication.



Quality Rejection Process:

Nonconforming material is identified.

- ✓ Internal CAPA Corrective Action Preventive Action (CAPA) is generated and dispositioned.
- ✓ Supplier's Percent Lot Accepted Quality Metric will show reject.
- ✓ Buyer sends Supplier Corrective Action Request (SCAR) letter accompanied by parts for rework/analysis or supporting documentation such as pictures.
- ✓ Supplier to provide acknowledgement upon receipt of the SCAR request.
- ✓ Supplier to provide an immediate containment process of all potential nonconforming product within 3 business days from initial contact by Creation and a plan to meet immediate production needs.
- ✓ Supplier is expected to provide a defined Root Cause and Corrective Action plan within 10 business days from receipt.
- ✓ Supplier to submit SCAR response to buyer within 30 calendar days from receipt.



Quality Rejection Process - continued

- ✓ Supplier Corrective Action Request (SCAR) is reviewed.
- ✓ We will request to see corrective actions in use during visits and will review and
 discuss systemic issues quarterly.
- ✓ Creation does not distinguish between major and minor SCARs. Any issue that will hold up customer deliveries, including packaging and paperwork rejects is a non-conformance that requires resolution.
- ✓ We do internally categorize SCARs to help identify systemic issues.
- ✓ A "Use as Is" disposition does not mean that the issue is not important or that it is
 ok to ship non-conforming product or material again.
- ✓When applicable, we will return parts to a supplier. If we cannot, we will do our best to send digital pictures or other supporting information.



Quality Rejection Process: Communication

- Your Buyer, SQE, Quality Representative or Designee is your point of contact.
- You will receive a Supplier Corrective Action Request (SCAR) from your point of contact.
- Please submit your response directly to your point of contact via email attachment.
 - The response must include evidence to confirm actions taken.
- Reach out to your point of contact, with questions or requests for additional information.
- Please include your Supply Chain contact on ALL communication!



Quality Rejection Process: SCAR Form

- The standard corrective action method is the Global 8D SCAR format. The blank Supplier Corrective Action Request 8D form is available for download on the Supplier Website if a copy is needed.
- Creation strongly encourages the supplier use the Global 8D SCAR format for Root Cause Analysis.
- Ensure your response addresses all sections of the Global 8D SCAR Process.
- You will receive an email from your point of contact with our form and the Supplier Corrective Action Request (SCAR).
- All responses are to be electronically communicated.



Supplier Corrective Action Request-8D Response: Creation's 8D Template – Reference Only

TEMANOLOGIES	Creat	Creation Supplier Corrective Action Req Report			C-0003031 Rev B
#F Compiler Technologies	5	ala a fina a adalah a a ada			
	Supplier web	site for additional f	requirements, resources, tools, form	ns, or guides.	
Supplier Name:			Business Unit:		
SCAR Number:			Date Issued:		
Purchase Order:			Completed 8D Due Date:		
(IPN) Part Number(s):			IPN Description		
Recurring Problem:	YES 🗆	NO 🗆			
	•				
Supplier completes D1-D8 D1: Problem Description: Required - Supplier enters		roblem descriptio	n including the following inform	ation: What, V	Vhen, Where, Why,
D1: Problem Description: Required - Supplier enters How Many/How Much.	a detailed p	·	n including the following inform	ation: What, V	Vhen, Where, Why,
D1: Problem Description: Required - Supplier enters How Many/How Much. D2: Team Members: (Supplier enters)	a detailed p	iles a team)		ation: What, W	/hen, Where, Why,
D1: Problem Description: Required - Supplier enters How Many/How Much. D2: Team Members: (Sup, Team	a detailed p	iles a team)			/hen, Where, Why,
D1: Problem Description: Required - Supplier enters How Many/How Much. D2: Team Members: (Sup, Team	a detailed p	oles a team)	Teal Required		
D1: Problem Description: Required - Supplier enters How Many/How Much. D2: Team Members: (Sup, Team Required Team	a detailed p plier assemb Leader Nam	oles a team)	Teal Required	m Leader Title	
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D1: Problem Description: Required - Supplier enters How Many/How Much. D2: Team Members: (Sup. Team Required Team Required Fill In if Applicable Fill In if Applicable D3: Containment: (What a	plier assemb Leader Nam Member Nai action was te Coni n to prevent si and Finished n to reduce im	me sken to contain the tainment Action cope expansion of t	Required Tean Required Fill In if Applicable Fill In if Applicable e non-conformance)	m Leader Title	emented Date Required

CREATION TECHNOLOGIES - STANDARD FORM

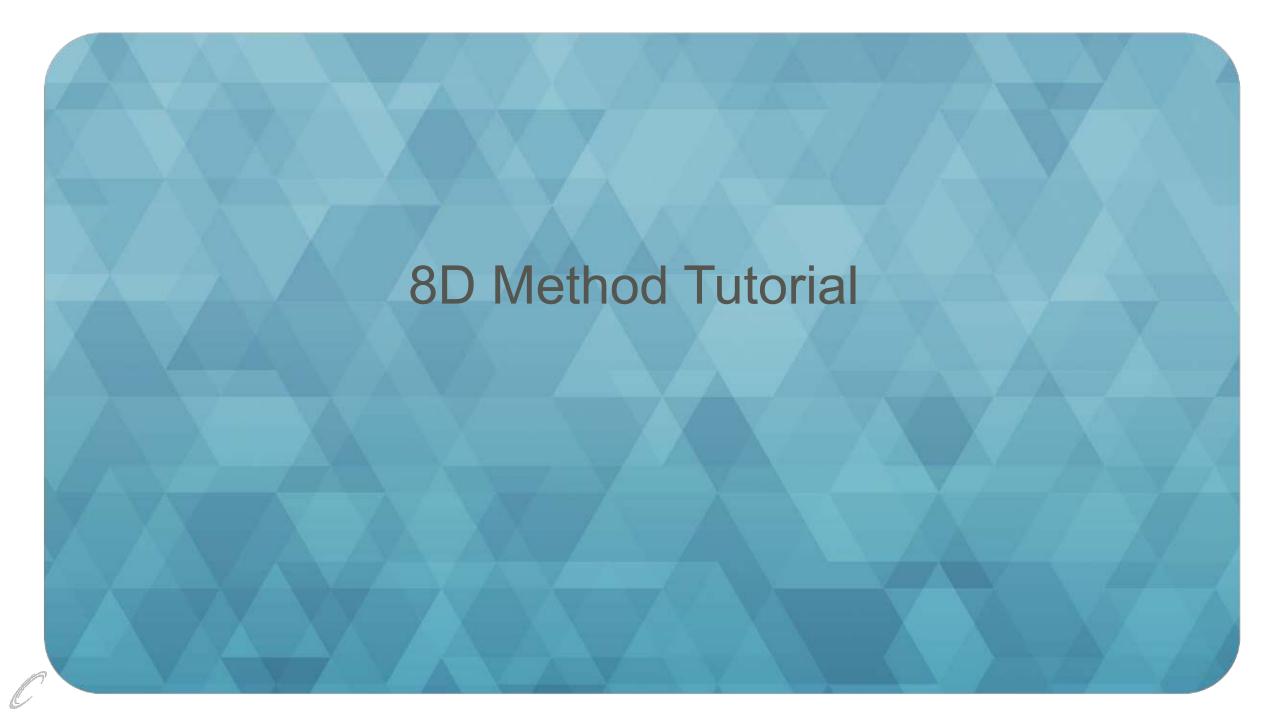
Non-Conform	ning Product (Disposition: Choose an O	ption from the	Dropdown	
D4: Root Cau	se: (Complet	e root cause analysis tools such as 5 Why or 6M	1/Fishbone, etc.	, to determine	Root Cause(s)
Required - W	/hat is the Ro	ot Cause that directly resulted in the problem?			
Required - W	/hat is the Ro	ot Cause that resulted in the escape or non-dete	ection of the pr	oblem?	
Required - W	/hat is the Ro	ot Cause in the process or system that introduce	ed risk for the p	roblem to occ	ur?
Attach object	tive evidence	for Root Cause Analysis tools used			
D5: Permane	nt Corrective	Action:			
Assigned To		Corrective Action		Due Date	Implemented Date
Required	Required - C	orrection of direct root cause		Required	Required
Required	Required - C	orrection of escape root cause	Required	Required	
Required	Required - 0	orrection of systemic root cause	Required	Required	
Attach evider	nce of comple	ted action item/s with the 8D on return			
D6: Preventa	tive Action: (Actions to ensure the same problem doesn't oc	cur in a separat	e process or p	roduct)
Assigned To		Preventative Action	Due Date	Implemented Date	
Required	Required - F	reventative action addressing direct root cause	Required	Required	
Required	Required - F	reventative action addressing the escape root o	Required	Required	
Required	Required - Preventative action addressing the systemic root cause Requi				Required
Attach evider	nce of comple	ted action item/s with the 8D on return			
D7: Verificati	ion of Actions	:			
Correctiv	re Action	Verification			Date Verified
Correction of Direct Root Cause		Required - How was the corrective action verified to be effective?			Required
Correction of Escape Root Cause		Required - How was the corrective action verified to be effective?			Required
Correction of Systemic Required - How was the corrective action verified to be effective? Require					Required

Preventative Action		Date Verified						
revention of Direct Root Cause	Required - H	low was the preventative action verified to be eff	Required					
revention of Escape Root Cause	Required - F	low was the preventative action verified to be eff	Required					
Prevention of Systemic Root Cause	Required - H	low was the preventative action verified to be eff	Required					
Provide evidence of verification								
Process and System Documentation has been reviewed and updated to support corrections? YES NO								
Provide evidence of document changes								
D8: Team Recognition:								
f Applicable - Add final comments and recognition for the supplier's team								
Signatures:								
Supplier QMR Name		Title	Date Signed					
Required		Required	Required					
Creation Approver Name		Title	Date Approved					

Quality Rejection Process: Creation's Role

- A Supplier Corrective Action Request (SCAR) will be generated and assign supplier responsibility with the information available at the time.
- Responsibility may be changed due to new information provided internally or externally.
- Support and work with the supplier as needed on root cause analysis and permanent corrective action.
- Our goal is to prevent future problems, waste and cost of defective product while limiting non-conformance exposure to the end customers.





Global 8D Tutorial

Basic problem solving and communication:

- The next few slides detail our expectations for a process/data driven problem solving approach.
- If you require assistance, please reach out to your point of contact at Creation Technologies



8D Process Flow

- D1: Problem Description
- D2: Define Team
- D3: Containment (Containment Response due within 3 business days from SCAR request receipt)
- D4: Root Cause (Root Cause Analysis due within 10 business days from SCAR request receipt)
- D5: Permanent Corrective Action (Corrective Action Plan due within 10 business days from SCAR request receipt)
- D6: Preventative Action
- D7: Verification of Actions
- D8: Recognition and Closure
- * Whatever process is used; it must be a formal approach*



D1: Problem Description

- Detailed description of why the part is unacceptable. Clearly define the problem and, if necessary, any specific conditions under which the problem occurs or becomes visible.
- If the problem description differs from the customer or supplier definition, both should be recorded and identified accordingly.
- What is the print specification?
- Did we have a print violation? PCN?
- Boundary samples? (for visual, sensory defects) Reference to customer/ industry standard?
- Have you answered: What? Where? When? Why? How Much/Many?



D2: Define Team

Team Leader / Members involved in resolving the problem:

- A Team Leader is "assigned to" each corrective action request.
- Establish a team and resources.
- List all the people involved in working on the problem (name and title).
- Form a Cross-Functional Team (ex. Quality, Engineering, Production, Maintenance etc.)
 - Not a team of one!
- Team members should be appropriate to the problem you want to solve.



D3: Containment

Containment Actions

- Do you see this problem in your plant?
 - Ask the employees if this problem has ever occurred?
 - Sample parts, verify your process, check your records and stock.
- Contain all stock.
 - Is there danger of shipping contaminated stock?
 - Sort backwards from the shipping dock to where the issue occurred.
 - Verify that all parts meet the drawing specifications.
- Communicate the results!
 - Let us know what you found.
 - Help us determine the magnitude of the problem.
 - Do we have to make a disclosure to our Customers?
 - Use a data driven process.



Containment Response Communication

The supplier should answer the following questions when compiling the containment response.

- Recognition of the issue?
- How many parts are in transit that might be defective?
- How many defective parts are at supplier's facility?
- Is there measurement correlation?
- How are defective parts identified?
- How are conforming parts identified?
- Discuss next steps.



D4: Root Cause

There are at least three root cause levels:

- The specific root cause(s) that resulted in the problem. (Why Made?-Occurrence)
- The root cause that allowed defect(s) to escape. (Why Escaped?-Detection)
- The systemic root cause the design or manufacturing system that allowed the specific root cause(s) to occur. (Why Made?-Systemic)

What has changed? (machine, material, method, personnel, supplier, instructions, shift, print, gages etc.).

Can you turn the problem on and off? Can you create the condition and remove the condition by adjusting the defined root cause(s)?

Have you verified the root cause(s) with data?

Use one or more of the following methods should be used to determine Root Cause:

- 5 Why
- 6M or Fishbone Diagram
- PDCA (Plan, Do, Check, Act)

Include the 5Why, or other, as evidence with the 8D form.



Root Cause: Operator Error

Creation Technologies does not accept "Operator Error" as a root cause.

4 categories to focus on when you think "Operator Error" is the root cause:

- Workstation Layout / Visual
- Ergonomics
- Documentation
- Tools and Machine/Equipment Assist

Other examples of unacceptable Root Causes

- Restating or rewording the non-conformance
- ➤ Management oversight (Why did the management system allow this?)



D5: Permanent Corrective Action

- Were all levels of root cause addressed?
 - Occurrence What directly led to the non-conformance?
 - Detection What controls were not in place to allow the escape?
 - Systemic What breakdown in the system or process allowed the defect or non-conformance to occur?
- Are there sufficient resources to correct the issue?
- Did we contain parts until the issue was resolved?
- Did we test the fix?
- Does our customer agree with the solution?
- What are short term and long-term changes to permanently fix the issue.
- Updated documentation may include:
 - Part Travelers
 - Prints, drawings, or sketches
 - Inspection data, Core Tools (PFMEA, Control Plan Flow Chart, etc.)



D5: Permanent Corrective Action - continued

- Consider fool-proofing, error-proofing, and Poka-Yoke to prevent errors before they occur.
- Corrective action must describe the formal CHANGES that were implemented to address each root cause statement.
- A statement in a corrective action response is not evidence of formally changing the system. Changes resulting from corrective actions must be defined and documented in work instructions or documentation, and evidence of changes must be provided with the SCAR response.
- Prove that you have identified the correct root cause(s) and that the permanent corrective action taken(s) will fix the problem forever.

Examples of unacceptable corrective action statements:

- Reinforced the importance of following procedures (What improved controls were implemented to make sure people follow procedures?)
- Retrained operators (Why did the training not work the first time? Maybe even the best training will never be enough because the process needs to be error-proofed?)
- Fired the operator (What process allowed that operator to be assigned in that function?)



D6: Preventative Action

- What gaps remain in the process that can potentially result in a defect?
- Can corrective actions be applied to other processes to prevent defects? (Standardize the corrections where possible)
- Did you test or validate your fix? Is there data to support the fix?
- Did you run trial parts through the system?
- Define the validation plan (error proofing, capability study, statistical analysis, sorting activity, and/or experimentation).
- Establish a clean point by lot number, serial number, date code and date.
- Review and/or update process documentation to reflect corrective action.



D7: Verification of Actions

Monitor Ongoing Corrective Action Effectiveness

- Use tools like Internal audits to verify effectiveness. Is the fix still in place?
- What have you done to ensure your fix will be used on future production runs?
- Are procedures being followed?
- Does the system really work?
- Provide evidence to prove effectiveness.
- Creation may audit decide to audit the supplier to verify the effectiveness of the corrective action. and may do an onsite audit.



8D: Team Recognition

• If appropriate, recognize the SCAR team's collective input and support.

Important: The SCAR is not closed until Creation provides a statement of closure or signs the 8D to acknowledge that the SCAR response has been reviewed, determined to be acceptable, and is approved. If the SCAR is rejected, the supplier will be notified that the response was not acceptable.



No Repeat Issues

• The true metrics of successful corrective actions are no repeat issues and prevention of similar issues in other areas or processes.

 Corrective actions will be assessed on their ability to help us avoid future problems.

• Corrective actions will be verified by a Creation Quality member, SQE, or designated representative upon next visit / audit at supplier's facility.



Structured Problem Solving

8D-Root Cause Analysis and Corrective Action Implementation

Training Complete
Thank You