## PHRED 8D Problem Solving Software

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## Why use PHRED for Problem Solving?

- One Single System handle all problems from the customer complaint to the internal plant through to the supplier
- Database use knowledge to reduce problem costs and learn from your mistakes
- Standard Process common view of the problem from the customer complaint, across production sites through to the supply chain
- Easy to Use create a large number of skilled problem solvers; the more problem solvers there are, the more problems you will solve
- Out of the Box no maintenance, no IT hassle, very low per person cost

### **Internal Problems**

- PHRED is simple enough for anyone in your organization to use.
  - The more problem solvers you have, the more problems you will solve, improving overall quality and saving money
  - Individual departments have their own forms relevant to their needs
- Database so you can search and view all problems across the company
- Manage actions and timescales with email reminders
- Automatic reports and charts to save time
- Find true root cause and eliminate repeats with a robust root cause process
- Share information within and across your plants, allowing for solutions to similar problems to be viewed, speeding up the problem solving process

# **Supplier Problems**

- Your suppliers can login to PHRED and enter their 8D information
  - One supplier cannot see another's problems or your internal problems
  - Accept or reject their solution
  - See exactly what's going on inside your suppliers
- Hold your suppliers to your standards
- Make the information visible and accessible. Know what's going on with each supplier or a group of suppliers and have the information you need for chargebacks, etc.
- Database, Reports and Charts so you can view past problems and compare suppliers
- Set email reminders to ensure that suppliers are keeping to their timescales
- Find true root cause and eliminate repeats with a robust root cause process

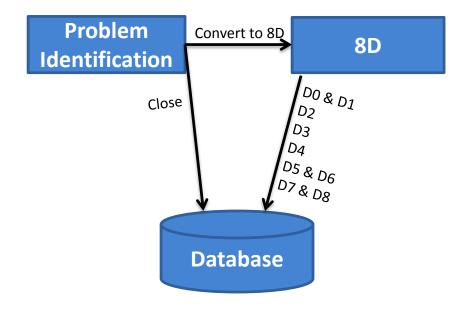
## **Customer Complaints**

- Capture your customer complaints directly by the customer entering them into the system, from your customer support department, or by linking directly with a CRM such as Salesforce
  - Eliminate much of the administrative costs of back and forth phone calls and emails with the customer
  - PHRED can be configured to the reports you need such as different 8D formats or one-page summary reports
- PHRED will keep track of all due dates, actions, open vs closed and send email reminders where appropriate
  - Problems and their responses will not be lost or forgotten
- Automatic Reports and Charts
  - Save time with automatic 8D and One-Page reports and charts
  - Generate 8D and customer complaint reports in your customer's formats

# PHRED is Configurable

- PHRED can be configured by the quality department without IT assistance; A few people in your company will have access to the Admin tab where they can make changes to the system when needed
- PHRED Solutions will complete the initial configuration in 2 days on your site, while at the same time, training your administrators on how to use the Admin section and make changes yourselves. After 2 days, the system will be ready to use and configured to your requirements.
- Please bare in mind, the screen shots below are from our demonstration system. These screens will be configured to match your specific needs such as the forms, the name of each step, your locations and departments, etc.

## Screen by Screen Walk-Through



**Problem Identification** - Issues are identified, worked and tracked on a single screen. The issue can then be closed here or converted to an 8D.

**8D** - Users are guided through all D-steps.

**Database** - As issues are identified and 8Ds are being worked on, they are captured in the database.

#### Supplier and Customer Portals -

Suppliers, customers and contract manufacturers can each have their own secure area in the shared system to enter, edit and manage problems with you.

### Functions Available on all Screens

- Top Menu Bar
  - Home: All your Problems and Actions
  - Notification: Single screen to identify a problem and associated data
  - 8D
  - Library, Reports & Charts
  - Admin: Make your own changes to the system
- Left side bar functions
  - Attachments
  - Reminders: Set up the schedule for action email reminders by problem
  - Report: See the report for the problem you are currently working on
  - Add Team Members
  - Coach & Help: Online training on how to use the system
- Actions at the bottom of each screen
  - Assign actions to Team Members
  - Emails reminders are sent automatically when an action is assigned, updated or overdue

8D PRC	DBLEM SC				PHR	EDGlobal		
State Problem	Probl	em ID <b>c Root Cau</b> s	8D se Solution	<u>Library</u> Close	<u>Reports</u>	<u>Charts</u>	Admin Browser Setup Tech Support Preferences Log o	ſſ
PD: 866 8D Status : Open Team Mbrs	Title : Material Qu Save/Next Problem Stat	Cancel S	II is below standard ave/Recall	z			D2	
Attachments Send E-Mail Reminders Coach Revisions Short Report	What is happe	ning?			w	hat should be happer	ning?	
Long Report	Where does it	happen?			W	hen does it happen?		
	ID Action Du Responsil	ble (PID 866 8D 1		) )	Problem Details Close Print	multi-perspective, i many information b Use the questions collect the relevant clear problem desc understand your is: Your problem state perception may not not. If the problem	ed problem description. This is a clear, concise, in-depth view of the problem collected from as holders as possible. to develop an understanding of the problem and data. The more time you spend on creating a cription, the easier it will be for people to sue and give their input. sue and give their input. ement may change later, because your initial to the real problem. In fact, many times it is is difficult to fully identify, enter what you then you will be guided through developing a in or the archem.	
	1. None Add Action Max Actions: 2	All Other Ad	ctions			What seems to be Ideally, a problem s and complete. If the problem is di understand so far, clearer understand	the problem? statement should be well thought out, specific, ifficult to fully identify, the user enters what they then they will be guided through developing a	
	Page build time:	141 msecs, SQL Se	rver, Session ID: 4E37D	910208A9AD2.cf			veen what is actually happening and what sen is crucial to developing a thorough he problem.	Ŧ

#### **Problem Identification**

Identify a problem, assign team members and collect the data surrounding it.

- A one page form to identify a problem and say what was initially done
- Configure multiple Notification types, allowing for different forms for different types
- The Notification type you choose will determine which fields appear on the form
- You can close it here, or convert it to a new 8D

BD PRC		G		PHREDGIO	bal		
blem Identication	>> Problem Identification Problem ID	<u>8D</u>	Library	<u>Reports</u>	<u>Charts</u>	Admin	- 11
eam Mbrs ttachments eminders oach	Save/Next Cancel * Indicates Requir * Title Problem Type * Region : Building : Department : Date Received : Initiated By : Ni Team Members: Explain Audit Findi Auditor Name: Nic Auditor Phone: 97 Customer Aud Supplier Audit closing notes:	ed Field  ISO Audit Customer Complaint EH&S Engineering Issue Field Service Idea Management ISO Audit Non Conformance NPI Process Improvement Quality Safety Simple RCA Supplier Quality k Rennie 0-453-5235 it?:	Close Close		Owner : Aerts, Kris		off
			1.				

#### State Problem: D0 & D1

Identify a problem, assign team members and collect the data surrounding it.

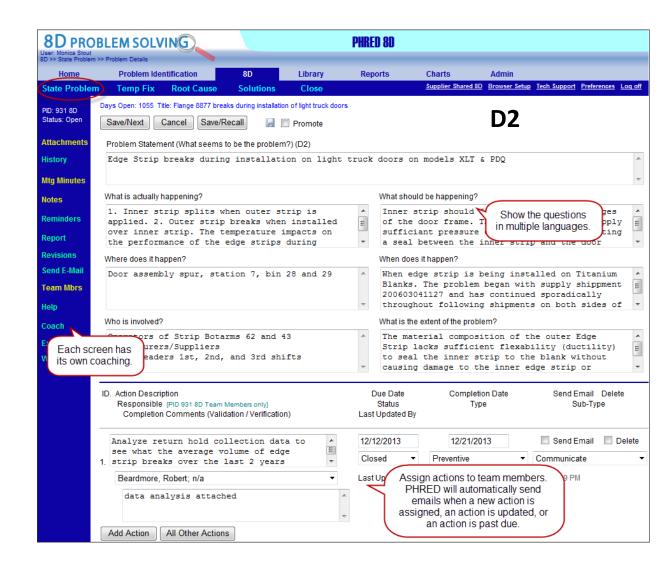
- Configured by your administrator to reflect the data collection needs/structure of your company
- Automatically populate some fields from other systems (SAP, Salesforce, etc.)
- You can have multiple notification types for a single 8D
- You can have multiple notifications attached to an 8D

D PRC	BLEM SO				PHREDG	lobal				
: Nick Rennie, si > State Problem	n: ProbIDQC >> Problem Identificatio	n	,							
Home	Probler		8D	Library	Reports	<u>Charts</u>	Admin	Cabina - Tank	Current Destau	
ite Problem		Root Cause	Solution	Close			Brow	ser setup <u>Tecn</u>	Support Prefere	ences Log oπ
s1 8D pen	Save/Next		ng installation of lig Recall	ht truck doors		[	<b>% 00</b>	D1		
am Mbrs achments nd E-Mail minders ach visions ort Report ng Report	Problem Type : * Region Building Departmen Date Receiver Initiated By : Team Members Avishek Uprety,	8877 Edge strip br	015 📰 Date : 12-09- re (RO), Paulin y	▼ ▼ ▼ (mm/dd/yyyy) : -2015	Problem Ow Last Updated		Rennie Date:			Simpson,
	* Part number: [ * Part Name: [K Phone: [847-655	97BE	) sticks and	the edgestrip	Produc	t Description: v Detection Po				
		ct: Terry Johnston			* Cont	act Email : )bertind.com		·		
	Severity of Prob		14 🛗 05	/04/2014	If Yes, e	tential improv enter issue #: er Contact: Bil				
		cription PID 931 8D Team On Comments (Valid		on)	Due Da Status You must se Initiated By		Completion Da Type nsible person to		Send Email	Delete
	specificat 1. Simpson, M	Monica;n/a eedale has upda			Open	ed By : Nick R	rrective Rennie Date-Tirr	•	Send Email	Delete
	Add Action	All Other Action	s							

#### **Describe the Problem: D2**

Create a clear description of the problem in 7 easy questions or less.

- A single screen is used to create a well formed problem description
- PHRED gives the investigators the right questions to ask to develop an understanding of the problem & collect the relevant data
- Visible to the team, experts, managers and other people with similar problems



#### **Temporary Fix: D3**

#### Describe the actions and notify the right people.

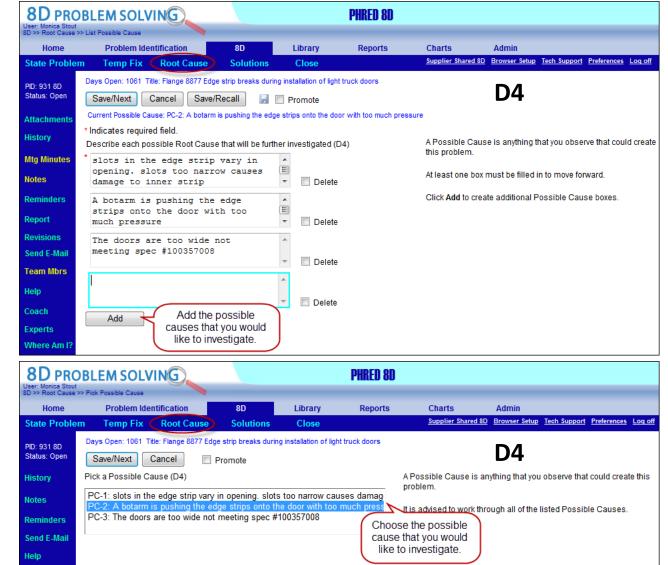
- Control the situation at the scene of the problem, in the supply base, at the customer and across the organization
- Measure your time to containment
- Ensure that the Containment Action is removed when the issue is closed and the relevant people are informed

8D PRC				PHRED 8D				
User: Monica Stout 8D >> Temp CM								
Home	Problem Identification	8D	Library	Reports	Charts	Admin		
State Proble	m Temp Fix Root Cause	Solutions	Close		Supplier Shared 8D	Browser Setup	Tech Support Preferen	ences Log off
PID: 931 8D Status: Open	Days Open: 1061 Title: Flange 8877 Edg Save/Next Cancel Save/F		istallation of light tru Promote	ck doors		D3		
Attachments	Summarize the Temporary Fix (D3)			Who needs t	to be notified of the	Temporary Fix	? (D3)	
History	Increased shipments to ma quality station between 1 bins 28 and 29.	-		<ul> <li>Production</li> </ul>	on, dispatch,	quality, a	and planning	^
Mtg Minutes	bills 20 and 25.			Ŧ			~	-
Notes	(Note: This Temp Cm will only appear in t When was the containment complete	? (leave blank if n/a	a)		FOT OMT (		e questions can onfigured to ma	
Reminders	Date: 07/12/2013 {mm/dd/yyyy} Is there a safety risk? If yes, expression.	Time: 12:22 PM	{h:mm AM/PM}	Time Zone: U.S.	EST GIVIT-5		ur current proce	
Report	C Ves C No O Don							
Revisions	Measu	e your time						*
Send E-Mail	Did defective product escape out from		115-0					$\nabla$
Team Mbrs	Yes I No Don't Know		anty ?					
	If no, explain how you know. If yes, de	scribe the quantity,	identifying data, a	and suspect location	ns.			
Help	Inspection caught the pro	blem before a	nything was	shipped				<u>^</u>
Coach	Did defective product escape to Cus	omer?						•
Experts	🔘 Yes 🖲 No 🔘 Don't Know							
Where Am I?	If yes, describe the quantity, identifyir	g data, and suspec	t locations.					
								*
	ID. Action Description Responsible (PID 931 8D Team Completion Comments (Valio			Due Date Status Last Updated By	Completic Type		Send Email Sub-Typ	
	Analyze return hold co see what the average v		to A	12/17/2013	12/15/20	13	🔲 Send Email	Delete
	<ol> <li>strip breaks over the .</li> </ol>	-	*	Closed -	Corrective	<b>- - - - -</b>	Process Change	•
	Binnett, Joan; n/a		•	Last Updated E	members. En sent automati		rs are on the	
	Add Action All Other Action	B						

#### Root Cause: List and Pick a Possible Cause: D4

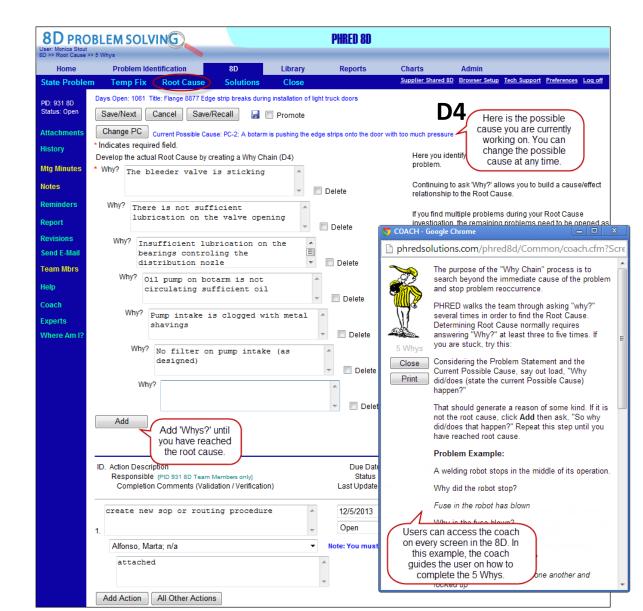
Describe the possible Root Causes and choose one to investigate.

- PHRED breaks down the process of finding root cause into a series of simple steps that everyone in the organization can use
- Step 1 is to list the possible causes. Each will be investigated to Root Cause or eliminated as a dead end
- Step 2 is to pick a possible cause to investigate. It is typical to investigate each possible cause



### Root Cause: 5 Whys Root Cause Analysis: D4 Classic 5 Whys

- PHRED walks you through asking "why?" several times in order to find the Root Cause of a problem
- Inexperienced users can access the coach, which walks you through how to complete the 5 whys. This can be configured to match your existing training manuals, etc.
- As the 5 Whys are visible to colleagues and experts, the quality is improved



#### **Root Cause: Verification: D4**

Describe how you tested the Root Cause

- Each why chain is worked through to see if it is a valid Root Cause worth testing or if it is a dead end
- Collect the data and evidence that supports the Root Cause
- Classify the Root Cause for your metrics

Jser: Nick Rennie, s		G		PHREDO	Global			
3D >> Root Cause >> Home	Verification and Evidence     Deschlarm UD	8D	Library	Reports	Charts	Admin		
State Problem	Problem ID Temp Fix Root	Cause Solutio		Keports	Charts		up <u>Tech Support</u> Prefer	ences Log off
PID: 9318D State: Open Team Mbrs Attachments Send E-Mail Reminders Coach Revisions Short Report Long Report	Title : Flange 8877 Edge strip Save/Next Cancel Change PC Current f	breaks during installation Save/Recall Possible Cause : PC-2: A b y: No filter on pump intake verified? maintenance used negative result of	of light truck doors	Describe ho Be sure to in were perform	w you verified the clude who gathe ned.	e Root Cause. red the data, and wh	nen and where any ob Root Cause (required)	
	What data/evidence supp 5 Why's 5 W2H Brainstorming Fishbone diagr Is / Is not Kaizen Sheet OPL Pictures Proceed Flow ( Root Cause Tree Swim Lane Dia	am Configure options to your ne gramm	e these o reflect	Categorize this cause into Ma	an,			
	* Sub Group: ID Action Description Responsible (PID 93 Completion Comm	No Value Selected Environment Machine Man Material	iation V N	Machine, Meth Iaterial, Measur or Environme Status You must s Initiated By	ement ent. c	ompletion Date Type ble person to enable	Send Email 9 the	Delete
	1. Simpson, Monica; r	on line 2A and 2		5/12/2015 Open Last Updat Initiated By		ctive	Send Email	Delete

#### **Root Cause: Fishbone Option: D4**

Automatically create a fishbone/ishikawa diagram.

- By problem, the user can decide if they want to include a fishbone diagram
- The system automatically creates it, making it easy for anyone to use
- Include the diagram in your reports for customers and internal

		Machine
Man		•A botarm is pushing the edge strips onto the door with too much pressure
slots in the edge strip vary in opening, slots too		$Why's \longrightarrow \  \   \text{The bleeder valve is sticking}$
narrow causes damage to inner strip		There is not sufficient lubrication on the valve opening
$Why's \rightarrow \ $ slots in the edge strip vary in opening, slots too narrow causes damage to inner strip	Method	Insufficient lubrication on the bearings controling the distribution nozzle
inconsistency of strip manufacture	•The doors are too wide not meeting spec	Oil pump on botarm is not circulating sufficient oil
problem has not been discussed with manufacturer	#100357008	Pump intake is clogged with metal shavings
manufacturer sole supplier	Why's $\rightarrow$	No filter on pump intake (as designed)
		$\mathbf{X}$
estats in the edg	e strip vary in opening. slots too narrow causes damage	a to inner strip
	is pushing the edge strips onto the door with too much p	
	The doors are too wide not meeting spec #100357008	
	•bolt	
Material	Measurement	Environment
lock	•bolt	
	•DOIL	

#### Solutions: D5 & D6

#### Outline the solution and verify that it will prevent recurrence.

- Present the solution for agreement and implementation
- Configure the questions and the Coach to match the justification and approval processes of your company
- Assign and track actions for solution implementation

8D PRC				PHRE	D 8D				
Home State Proble	Problem Identification		brary Jose	Rep	orts	Charts Supplier Shared	Admin 8 <u>D</u> Browser Set	up Tech Support Prefe	rences Log off
PID: 931 8D Status: Open	Days Open: 1061 Title: Flange 8877 Edge : Save/Next Cancel Save/Re	strip breaks during insta	llation of light tr	uck doo	rs		5&[		
Attachments	Summarize Your Solution - What is	the Overall Plan? (	D5)		Who needs	to be notified o	of the Solution	1?	
History Mtg Minutes Notes Reminders	1 Introduce tighter quali supplies of edge strips f 2 Adjust the maintenance lubrication nozel on the and Operators of botarms 3 Manufacture a mechanism strips prior to the botar the bins	rom manufacture schedule for th botarms Mainter 10/14/2007 to measure the	ne nance e edge	* 		g, Quality, ms, Product		ice and Operato	rs ^
Report	How did you verify that this will pre	vent recurrence?			How will y	ou verify that th	e problem doe	es not happen again	?
Revisions Send E-Mail Team Mbrs	tested it in cells 23, 26	, 29		*		rterly it w		of this cell so assessed by aud	
Help Coach Experts				Ŧ					Ŧ
Where Am I?	ID. Action Description Responsible (PID 931 8D Team M Completion Comments (Valida			-	Due Date Status Updated By		etion Date ype	Send Email Sub-Ty	
	look over specs on part	number G556	*		7/2013 sed •	8/17/2 Corrective	013	<ul><li>Send Email</li><li>Design Change</li></ul>	Delete
	Rennie, Nick; n/a Add Action All Other Actions	]	▼ ▲ ⊽	Last	mem sent a	Monica Stout D Assign action: bers. Email r automatically hedule that yo	s to team eminders a based on ti		

#### Audit and Close: D7 & D8

Prevent Reoccurrence, Close & Audit

- Implemented solutions are audited for success
- Knowledge is shared between expert groups, knowledge networks and possibly customers and the supply base
- Decide what your Close Requirements are and configure the system to match them

8D PRO			PHRED 8D		
Home	Problem Identification	8D Libra	ary Reports	Charts	Admin
State Probler	n Temp Fix Root Cause	Solutions Clo	se	Supplier Shared 8D	Browser Setup Tech Support Preferences Log off
PID: 931 8D Status: Open	User: Monica Stout BD >> Close Home Problem Identification &D Library Reports Charts Admin State Problem Temp Fix Root Cause Solutions Close Browser Setup Tech Support Preferences Log off PID: 931 8D Days Open: 1061 Title: Flange 8877 Edge strip breaks during installation of light truck doors DZ 2 DQ				
Upper Mode Store       Problem Identification       80       Library       Reports       Charts       Admin         State Problem       Temp Fix       Root Cause       Solutions       Close       Supplier Shared 3D       Research 2D       Research 2D </th					
Reminders			~		Ψ.
Revisions Send E-Mail Team Mbrs Help Coach Experts	Containment Complete: Date: 07/ Close Without Resolution? Close Problem? This problem can NOT be closed u been met, or until a "Reason for Cl selected. • You have one or more Open A • The "Temporary Fix Removed?	12/2013 (mm/dd/yyy * Reason: No Assig * Enter Closing Date: 2 2 Clos ntil all of the following co ose Without Resolution"	e messages remut onditions h has been problem require problem require problem	hat all actions are closed n is accurate before closin hese are the ments for closing a n. Add more or less	ng. Individual contributions.
	Audit at supplier will oc supplier has implemented				

#### **Customer Complaints**

Customers enter their problems in your system, each in a secure area. (D0)

- PHRED will be configured to match your customer forms.
- Capture your customer complaints directly by the customer entering them into the system, from your customer support department, or by linking directly with a CRM such as Salesforce.
- Save time without having to exchange emails and calls with you customers.

8D PRC	BLEM SOLVING PHRED8DShared
QC >> State Proble	Problem Identification     BD Library Reports Charts Admin
State Problem	D1/2 Temp Fix D3 FI-FA Root Cause D4 Solutions D5/6 Close D7 PHRED Browser Setup Tech Support Preferences Log off
PID: 1490 8D Status: Open	Title: Flange 8877 on edge strip breaks during installation of light truck doors
Status: Open	Save/Next Cancel Save/Recall Demote D0 & D1
History	* Indicates required field
Minutes	* Title (D2): Flange 8877 on edge strip breaks during installation of light truck doors
Notes	
Reminders	Location : Cinclinati   Host Owner, Primary  Mig Site, Chanotte
Report Revisions	Area : Operations ▼ Owner: Lim, Ann CustomerA ▼ ● Shr With: CustomerA
Email	Occurrence: Date: 02/02/2015 (mm/dd/yyyy) Time: 5:36 AM (h:mm AM/PM or HH:MM) Time Zone: U.S. MST GMT -7
Team	Initiated By: LAURIE RAMBAUD, PHRED Date: 06/02/2015 Last Updated By: Nick Rennie Date: 6/14/2017
Help	Team Members: Yau Chan, Jorge Humberto Cossio, Mark Hampton, Laurie Jenkins, Ann Lim, LAURIE RAMBAUD, Nick Rennie, Cheryl Sears, Monica Stout, Erica Timmer, and Avi Uprety
Coach	Enter Tracking Data information below: (D2)
Experts	
Мар	Tracking Data System: CustomerA
	Product Name: Flange 8877 Product Number: 8877 Product Line: Semiconductor 🔻
	Date Ordered:         02/01/2013         (mm/dd/yyyy)         Production Date:         02/02/2013         (mm/dd/yyyy)         Shipment Date:         02/03/2013         (mm/dd/yyyy)
	Due Date: [mm/dd/yyyy]
	ID. Action Description Due Date Completion Date Send Email Delete Responsible (PID 1490 8D Team Members only) Status Type Sub-Type Completion Comments (Validation / Verification) Last Updated By
	Notify final inspection to change 2/10/2015 2/5/2015 Send Email Delete 1. Closed T Containment T Failure Analysis T
	Stout, Monica : PHRED : QA   Last Updated By: Nick Rennie Date-Time: 2/27/2015-02:04 PM
	Action Visible to PHRED Only
	Add Action All Other Actions

#### **Supplier Issues**

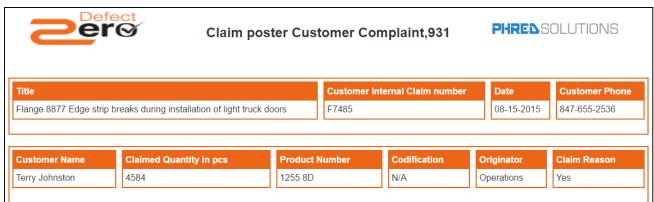
Suppliers and contract manufacturers can enter, edit and manage problems with you, each in their own secure area.

- Configure the system to enforce your requirements to close a problem
- Approve or reject the supplier's response via the Grant Close Approval function
- Drive timely actions and responses. Look over your supplier's shoulder as they are solving problems.

BD PRO	BLEM SOLVING		PHRED8	DShared		
Home	Problem Identification	8D pot Cause D4 Solutions D5	Library	Reports	Charts PHRED Browser S	Admin Setup <u>Tech Support</u> <u>Preferences</u> Log of
PID: 1490 8D Status: Open Attachments Grant Close Approval	Title: Flange 8877 on edge strip breaks du Demoted on 1/31/2013 at 7:00 AM from S Demoted on 1/24/2014 at 1:17 PM from S Demoted on 1/24/2014 at 1:19 PM from S Save/Next Cancel Save/F	ring installation of light truck doors hared for PHRED as PID 1234 8D hared for PHRED as PID 1003 8D hared for PHRED as PID 1013 8D				/ & D8
appro supplier		recurrence of the Root Cause? creased intervals				?/Whatdid notgo well?(D7) a timely fashion
aam elp oach xperts ap	Temporary Countermeasures Ren Containment Complete: Date: 02/     Indicators Verified on Problem ID Close Without Resolution?     Close Problem?     This problem can NOT be closed u been met, or until a "Reason for Ch	D5/2015 (mm/dd/yyyy) Tim Screen? (Click = Yes) * Reason: No Assigned Va Enter Closing Date: 4 Close mess: ntil all of the following condition	Verify scree Be su ages remain. After here	that all actions of that all actions of the second the problem and unchect	e before closing. ize team and indi is closed, it will re s 'Close Problem'.	d all Indicator Data on the Problem vidual contributions. main in the Library. To re-open it, re
	<ul> <li>selected.</li> <li>You must have a Problem Stat</li> <li>You must select either "Yes" or Temporary Fix screen</li> <li>FVFA is required. All fields musication of the selection of the selection of the selection of the verification and Evidence</li> <li>You have one or more empty for must be entered.</li> <li>The "Temporary Fix Removed" checked.</li> </ul>	ement on the Problem Details s "No" to each question on the st be completed on the FI/FA scr ctions. All Actions must be close of Cause which has been verifi screen. leids on the Solutions screen. A	een. ed. ed on Il fields t be	uirements problem. Y unge these	d to fulfill thes before closing ou can add or requirements reded.	g
	Comments:					

### Management Reports and KPIs See an overall view of what's happening.

- PHRED will be configured to get the KPIs and reports you need, including specific 8D formats and onepage summary reports
- With PHRED, you can save time because you will no longer need to prepare your reports manually





Exactly how did the customer describe the problem:

The deblader at the botton sticks and the edgestrip comes off

#### **Problem Statement**

Edge Strip breaks during installation on light truck doors on models XLT & PDQ

#### **Root Cause Group**

2.Man3.Environment

#### **Causes of the Problem**

N/A 1 . slots in the edge strip vary in opening. slots too narrow causes damage to inner strip 2 . A botarm is pushing the edge strips onto the door with too much pressure 3 . The doors are too wide not meeting spec #100357008 4 . lock 5 . bolt

#### **Corrective action**

1 Introduce tighter quality controls on supplies of edge strips from manufacturer 2 Adjust the maintenance schedule for the lubrication nozel on the botarms Maintenance and Operators of botarms 10/14/2017 3 Manufacture a mechanism to measure the edge strips prior to the botarm picking them out of the bins

### Library & Reports

#### Save time preparing internal and customer reports. Export to Excel or PDF.

- Search the library by Keyword, Location, Customer, Supplier, Part Number, Problem Owner, etc. Find out if this problem has been solved before.
- The One-Page example to the right will be configured to match the fields, structure and colors that you want.

x Excel Export	Word Export	卢 View PDF	Email		🖶 Print	× Cl		
PHRE	SOLUTIONS	3						
			PHRED	Global 931 8D	6/23/2017 7:59:37 AM (me))			
State	Problem							
Title Fla	ange 8877 Edge strip b	reaks during installa	tion of light truck doors	Date Rec	eived: 08-15-2015			
Problem	Type Quality							
	By : Monica Simpson Rennie, Date: 06-22-2		Updated Problem Ow	vner Nick Rennie				
Busine	ss Unit : China		Country : D	lenver				
location	n : Operations							
Uprety			hmidt, Monica Sim	ıpson, Avishek Upr	ety, and Ayush			
Voice	of the Customer - Det	ailed Description: ⊺	he deblader at the botton st	ticks and the edgestrip come	es off			
Part nu	imber: F7485		Product Des	scription: K97 Door				
Part Na	Part Name: K97BE							
Phone	847-655-2536		Factory Det	ection Point: No				
Custor	mer Contact: Terry Joh	inston	Contact Em	ail : terry@bertind.com				
Lot nu	mber: 4584		Potential im	provement beyond?: Yes				
Repeat	t Issue?: Yes		If Yes, enter	issue #: 1255 8D				
Suppli	er Name: Fredricks 77	92	Supplier Co	ntact: Bill Simkins				
Severit	ty of Problem: Medium	ı						
contair	ment Actual Date: 5/	4/2014						
State	Problem							
	m Statement trip breaks during insta	llation on light truck o	doors on models XLT & PDC	2				
1. Inner breaks w	s happening? strip splits when outer when installed over inne erformance of the edge	er strip. The tempera	uter strip Inner strip sl ture impacts The outer str	Id be happening? hould fit firmly around the ec ip should apply sufficiant pre a seal between the inner st	essure on the inner			
	does it happen? sembly spur, station 7,	bin 28 and 29	When edge problem beg	a it happen? strip is being installed on Tit an with supply shippment 20 oradically throughout follow ine.	0603041127 and has			
How is	the problem measure	ed?	What is the	e extent of the problem?				

### Charts

Save time preparing charts and share the information.

- Search and create charts by Keyword, Location, Customer, Supplier, Part Number, Problem Owner and many more.
- Click on any bar within a chart to see which problems are within that bar.
- Export your charts into Excel or PDF.
- Chart failure mode paretos, open vs. closed, problems by plant, supplier & more.



# IT/Technical Information

- PHRED can be installed on your own servers or PHRED Solutions can host the system on the cloud
- PHRED does not typically need it's own server; it is less than a gigabyte
- PHRED can interface with other systems within your organization such as SAP or Salesforce to reduce data entry redundancy
- Typically, PHRED requires minimal IT involvement as the Admin section in the system allows for the quality department to make changes to the system themselves

### Thank You

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