

Introduction

The purpose of this document is to provide an overview of how the AIAG CTS software works, including the main menu and admin options.

General Information

Any field marked in the system with an * indicates a required field.

Supported Browsers

AIAG's CTS software is a 100% online application compatible with supported browsers running on PC and Mac operating systems.

- **Browser options for Windows:** Chrome (recommended for best performance), Firefox, Microsoft Edge
- Browser options for Mac: Chrome, Firefox

Technical Support

If you have any additional questions or require further assistance, please <u>contact us</u>. Our team is available from 8:00am to 5:00pm US Eastern Time (GMT-4).

By Phone

- 1. Sales and billing related questions: + 1 (248) 784-1888 / +1 (888) 225-5077
- 2. Technical Support: + 1 (226) 777-0144 / +1 (888) 508-5335

By Email

- Sales and billing related questions: ctsinquiry@aiag.org
- Technical Support: support@aiagcts.org



Contents

Introduction
General Information
Supported Browsers
Technical Support
Home / Dashboard
Admin
Manage User Settings
Company
Add and Manage Locations
Add and Manage Users
Add and Manage Companies (Customer / Supplier Records)
Account Information
Parts / Projects / Gage Studies
Form Lookups – Reusable Library
Form Lookups – CTS View & DFMEA
Template Editor and Action Priority (AP) Ratings
Template Editor and Action Priority (AP) Ratings
Template Editor and Action Priority (AP) Ratings
Template Editor and Action Priority (AP) Ratings
Template Editor and Action Priority (AP) Ratings
Template Editor and Action Priority (AP) Ratings
Template Editor and Action Priority (AP) Ratings 1 Editing a Custom Template 10 Edit Column Properties 11 Action Priority Editor 11 Parts 12 Create New Part Record 12 Overview of Part Records 12
Template Editor and Action Priority (AP) Ratings 10 Editing a Custom Template 10 Edit Column Properties 11 Action Priority Editor 11 Parts 11 Create New Part Record 11 Overview of Part Records 11 Primary Navigation 11
Template Editor and Action Priority (AP) Ratings 10 Editing a Custom Template 10 Edit Column Properties 11 Action Priority Editor 11 Parts 11 Create New Part Record 11 Overview of Part Records 11 Primary Navigation 11 Record Details 11
Template Editor and Action Priority (AP) Ratings 1 Editing a Custom Template 10 Edit Column Properties 11 Action Priority Editor 11 Parts 12 Create New Part Record 12 Overview of Part Records 12 Primary Navigation 12 Add New Part Revision 12
Template Editor and Action Priority (AP) Ratings 1 Editing a Custom Template 10 Edit Column Properties 11 Action Priority Editor 11 Parts 11 Create New Part Record 12 Overview of Part Records 11 Primary Navigation 12 Add New Part Revision 12 Copy Part Record 13
Template Editor and Action Priority (AP) Ratings 9 Editing a Custom Template 10 Edit Column Properties 11 Action Priority Editor 12 Parts 12 Create New Part Record 12 Overview of Part Records 12 Primary Navigation 12 Add New Part Revision 12 Copy Part Record 12 Projects 14
Template Editor and Action Priority (AP) Ratings 9 Editing a Custom Template 10 Edit Column Properties 11 Action Priority Editor 12 Parts 11 Create New Part Record 12 Overview of Part Records 12 Primary Navigation 12 Record Details 12 Add New Part Revision 12 Projects 14 Projects 14 Oreate New Project Record 14
Template Editor and Action Priority (AP) Ratings 1 Editing a Custom Template 10 Edit Column Properties 11 Action Priority Editor 11 Parts 11 Create New Part Record 11 Overview of Part Records 11 Primary Navigation 11 Record Details 11 Copy Part Record 11 Projects 11 Overview of Project Record 12 Overview of Part Record 12 Add New Part Revision 12 Copy Part Record 12 Projects 14 Overview of Project Record 14 Overview of Project Records 14 Overview of Project Record 14 Overview of Project Records 14



Record Details	
Copy an Existing Project	20
Tasks	20
Primary Navigation	20
Add Tasks to a Project / Assign Tasks	20
Task List View	21
Manage Tasks / Sub-Tasks and Attachments	21
Forms	24
Primary Navigation	24
Managing Form Records	26
Forms History	
Alerts	
Product and Process Family Libraries	
Process Flow Visualization	32
Meetings	
Team Members	
History	34
Gage Studies	35
Create New Gage Study Record	35
Overview of Gage Study Records	35
Primary Navigation	35
Record Details	
Actions	37
Reports	
Attachments	



Home / Dashboard

CORE	AIAG CTS	7 Search	۹
	Core Tools 2 Reports		
1 🔂 Hom	e 3 Parts 4 Projects	5 Gage Studies 6 () Actions	

- 1. **Home and Core Tools:** Return to your dashboard at any point throughout the system. This is a high-level view, allowing you to see the activity of your company and what you need to work on.
- 2. **Reports:** Generate a summary and detail reports for parts, projects and gage studies. NOTE: *You may also generate reports on most screens in the system by clicking the print icon.*
- 3. **Parts:** Manage part records involved in your APQP and PPAP projects, including details by part number, name and rev level.
- 4. **Projects:** Manage your APQP and PPAP projects. Ability to manage multiple projects for the same part record at different part revisions. Track and associate projects with a specific customer, supplier or internal location.
- 5. **Gage Studies:** Manage library of reusable gage studies. Gage study records can be simply linked via project tasks. You can either upload studies generated outside of CTS as an attachment or directly enter gage study data to generate and view results reports for supported study types Variable (TV/Tol), ANOVA and Attribute.
- 6. **Actions:** A consolidated list allows you to see and navigate through the tasks assigned to you, plus all parts, projects and gage study records that you have access to on a single screen.
- 7. **Search:** Site-wide search of part, project and gage study records, including attachment records.



Admin

The Admin section has several sections, including User Settings, My Company, Lookup Lists, Templates, Usage Reports and more.

CORE	AIAG CTS	Search Q	COMPANY NAME >	Test User	ير	ГЭ
0	Core Tools Reports			testuser@yourcompany.com	<i>•</i>	

Admin: Click the wrench to navigate to the Admin section of the system.

Manage User Settings

In the Admin section, click the "User Settings" icon or select the menu option. You can edit general user information and upload a photo.

đ I	Home	Parts	Projects	Gage Studies	Ţ.	Actions					Admin
											8?
▲	Comp	any P	Parts / Projects / Gage	Studies Reusable	Library	CTS View	DFMEA	Templates	Usage Reports	System	
Use	er Settings								Hover Me	enu to Expand	

Company

Add and Manage Locations

🔒 Home	Parts	Projects	Gage Studies	() Actions					/		Admin
										2+	₿?
La Comp	any Par	ts / Projects / Gage	Studies Reusable L	ibrary CTS Vi	ew D	FMEA	Templates	Usag	e Reports	System	
Company > Lo	cations								Hover Me	enu to Expand	
Locations are th You can define a Active	e primary filter f any organization Deactivated	for Parts and Projec	ts and security. Records as a Location. Geograph	can only be viewed an ical Locations, Factori	d edited by users es, Departments, '	at that locat /alue Strear	ion. ns are all valid Location	·5.			
Name					ontent	Enter sea	rch text (for any column in g	grid)			
+ A Com	Ipany			N	ly Location					1 20	i m

Manage Locations: Locations are used for filtering data across multiple plants, sites or value streams. Account security (permissions) is based on the Locations assigned to users. If a user is assigned to a location, that user has complete access to edit any Part, Project and/or Gage Study record tagged to that location. Each user can be assigned to 1 or more locations.

1. The "New Location" entry is created by default with your new account setup. If you only have a single location, simply edit the "New Location" entry and rename for your location.

Page **5** of **39**



2. You may add new records one by one by clicking "Add New" or multiple records via the import feature.

Add and Manage Users

The system is controlled by concurrent user licenses, so you may add as many users as you want. The System Administrator is pre-loaded based on what name / email is associated with the order with AIAG. You can have multiple System Administrators. The other level of user access is "standard" user.

- Once a new user is created in CTS, the user will receive an email with instructions on how to create their account.
- Remember to assign a user to 1 or more locations. This determines what records a user will see and not see.
- Every user is set to Admin or Standard access level. Standard users are not provided access to the Admin section of the system.

Add and Manage Companies (Customer / Supplier Records)

Add and centrally manage customer and supplier records. This information is used for tracking who parts are bought from and sold to. Projects are then associated with a customer or supplier added to a part record.

đ	Home Part	ts Projects Gag	e Studies 🚺 A	ctions					Admin
								2 +	₿?
<u>گ</u>	Company	Parts / Projects / Gage Studies	Reusable Library	CTS View	DFMEA	Templates	Usage Reports	System	
	Locations People / Users	1 Customers Suppliers	Account Information						
List	of Companies that yo	ou sell to.							
	Active Deacti	vated							
					Enter searc	ch text (for any column in g	grid)	ł	
	Display	Division	Plant		Organization	Code V	Vebsite		
Θ	ABC Company	Ignition	12		IS21810			ø 🏨	đ
	DEF Limited	Tech Center	1		XY82430			Ø 🗎	۵.

- 1. Manage Customer and Supplier Records: Navigate to company records interface.
- 2. Add New Records: You may add new records one by one by clicking "Add New" or multiple records via the import feature.



Account Information

<u>&</u>	Company	Parts / Projects / Gage Studies	Reusable Library	CTS View	DFMEA	Templates	Usage Reports	System	
Company E	litor						Hover Menu	i to Expand	
-									
Cor	mpany Name:								
	eds 2020 Company								
Add	dress:								
	omewhere								
City	<i>r</i> :			State:					
L	ondon			ON					

Manage Account Info: Under the same Company menu, you will find a link for Account Information where you can add a company logo and edit primary company information to include address, city, state, zip, country and phone.

Parts / Projects / Gage Studies

This section features a variety of Admin pages related to Parts, Projects and Gage Studies entry fields, as well as a section for importing part records.

4	Company	Parts / Projects / Gage Studies	Reusable Library	CTS View	DFMEA	Templates	Usage Reports	System	
Pa	irts								
You	have 3 options fo 1. Regular Grid B 2. Copy/Paste da 3. Import a comn	or editing and importing dat atch Editing: enter data quici ta from Excel - simply select na-separated file (optionally	i for all lookups: dy and with proper v the cells you want to use the provided ter	alidation. import and paste t nplate).	hem into the indic	ated area.			
BA	TCH EDIT	COPY/PASTE FROM FI	.E						

- **Import Part Records:** Allows you to add multiple Part records at once, making it easier to transfer your existing Part records to CTS.
- **Product Family:** Dropdown menu available on the Part Detail record page.
- **Project Types:** Preloaded with default values for project types (APQP/PPAP) with the option to add new types.
- **Project Header Confidentiality Level:** Preloaded with default values for confidentiality level with the option to add new values. This information is used in PFMEA / DFMEA headers.
- **Product/Process Classification Types:** Preloaded with default values for characteristic types with the option to add new types according to internal and external (customer) requirements.



- **Operation Types:** Preloaded with default values for operation types with the option to add new types and associate a symbol with each custom value. Values can then be selected at the Part ("Operations") and Project > Forms record level.
- **Process Work Element (4M Types):** Preloaded with default values with the option to add new values. Values can then be selected at the Part ("Operations") and Project > Forms record level.
- **Gage Study Types and Gage Types:** Both fields are dropdown fields available on the Gage Study Detail record page.

Form Lookups – Reusable Library

The ability to edit and manage master lookup lists is a feature only available to Admin level users. The Reusable Library is a library of product characteristics, process characteristics and operation records. Library records can be retrieved and added directly to the applicable Forms for any Project. Alternatively, this information may also be entered directly at the Part record level.

								+ €) ?
۸	Company	Parts / Projects / Gage Studies	Reusable Library	CTS View	DFMEA	Templates	Usage Reports	System	
Form Lookup	os - Reusable Libra	ary > Product Characteristics					Hover Men	u to Expand	
- Reusable Libr Master	ary	×	EDIT LIBRARY FO	ORM DATA FOR ALL I	AMILIES				
Product Cha	aracteristics Pro	ocess Characteristics Operation	ns embly or component p	art usually described	l on the drawing tha	it can be measured v	vhen the process is co	mpleted.	
Activ	e Deactivated			Er	nter search text (for any	column in grid)			
	Number / ID	Characteristic		Specification / To	plerance	Class			

Form Lookups – CTS View & DFMEA

Centralized lookup record management for Forms data entry. You have the option to add data to lookup lists before creating your first part and project records, or you can begin using CTS and add data over time.

*	Company	Parts / Projects / Gage Studies	Reusable Library	CTS View	DFMEA	Templates	Usage	e Reports	System			
For	m Lookups - CTS Vie	w > Control Methods						Hover Me	nu to Expand			
Desi • pro • pre • tar	Description of how the operation will be controlled When selecting the method of control, focus on: • process control rather than product control • prevention rather than detection • targeting nominal rather than specification limits											
	Active Deactiv	ated			Enter searc	th text (for any column in g	grid)					
	Display					. , , ,						



Template Editor and Action Priority (AP) Ratings

Create custom templates by copying existing templates and adding or hiding columns, you can also update settings for Action Priority ratings.

Г	<u>*</u>	Company	Parts / Projects / Gage Studies	Reusabl	e Library C	rs View	DFMEA	Templates	Us	age Reports	System	
/	dmin - C	IS Templates								Hover Menu	to Expand	
E	Below are t hange Acti Active	he available temp ion Priority (AP) R Deactivated	olates for CTS View and DFMEA. If you wan atings (AIAG & VDA Only), simply copy the	t to make template	e any alterations to you want to chang	these temp e. This will (lates (add new colur rreate and add a nev	nns, hide columns, v version to your or	define ganiza	on which forms tions account.	s a column apı	oear) or
							Enter search text (fo	or any column in grid)				
	Expand Row	Туре	Name	Δ	Created		Last Updated	Notes			De	2 ow
1	Ð	DFMEA	AIAG & VDA DFMEA Form A (Grouped)		September 12, 2	019 Se	ptember 12, 2019	Default template	(not ed	ditable)	Ð	ē! ti
	Ð	DFMEA	AIAG & VDA DFMEA Form A (Standard)		September 12, 2	019 Se	ptember 12, 2019	Default template	(not ed	ditable)	ø	1
	Ð	CTS View	AIAG & VDA PFMEA Form C (Grouped)		September 12, 2	019 Se	ptember 12, 2019	Default template	(not ed	ditable)	ø	ē t
	Ð	CTS View	AIAG & VDA PFMEA Form C (Standard)		September 12, 2	019 Se	ptember 12, 2019	Default template	(not ed	ditable)	ø	i i
	Ð	CTS View	AIAG & VDA PFMEA Form E (Alternative)		September 12, 2	019 Se	ptember 12, 2019	Default template	(not ea	ditable)	Ø	ē) ti
	Ð	CTS View	AIAG & VDA PFMEA Form G (Alternative)		September 12, 2	019 Se	ptember 12, 2019	Default template	(not ec	ditable)	ø	ē ti
	ŧ	DFMEA	AIAG DFMEA 4th Edition		September 12, 2	019 Se	ptember 12, 2019	Default template	(not ed	ditable)	ø	ē t
	ŧ	CTS View	AIAG PFMEA 4th Edition		September 12, 2	019 Se	ptember 12, 2019	Default template	(not ed	ditable)	ø	ē) ti
	ŧ	CTS View	Custom Form C (Standard)		February 22, 20	23 F	ebruary 22, 2023	Specific to our org	ganizat	tion	3	ē ó

- 1. **Expand Row**: View columns in the template, see which columns are included on each form.
- 2. **Template operations**: Copy a default template to create a custom version that can be edited to your specifications.
- 3. Edit/Delete: For your custom templates, you can also update or delete.



Editing a Custom Template

Ð	CTS View	Custom Form C Sta	andard		April 27, 2023	April 27, 2023		0 E			
Type:		ew			EN ES	FR JA KO	PT ZH	+			
					Custom Form C Standard						
Source	AIAG & VDA PFMEA Form C (Standard)			1	1Description						
	Active / Visible				Specific to our organization						
	Unsele	Unselecting this will hide this template from new forms / projects - but keep it active for forms that already use it.									
							This template is being used by 0 fo	rms / projects			
Colum	nns Action Pi	riority (AP) Editor									
			3	$_{\rm v}$ Include in $_{\rm v}$							
Leve	rel 🚺 Ec	dit Controls		PFMEA	Control Plan		Display Text	Color			
	· +	/ 🗊 🛍 👻	~	~	~	Operations (original text: unchanged)					

- 1. **Edit Template properties**: Enter template name and description, in multiple languages if needed.
- 2. **Edit Controls**: Move a template column, add a custom column, edit, copy or delete a column.
- 3. **Form Visibility**: View column visibility in each form in the template.

			$_{\rm v}$ Include in $_{\rm v}$			
Level	Edit Controls	Process Flow	PFMEA	Control Plan	Display Text	Color
	- + / I i	✓	~	~	Operations (original text: unchanged)	
1	Display in:	PFI	MEA Cor	ntrol Plan	EN ES FR JA KO PT ZH	
3	Color	- Width 200	рх		Operaciones	
4	Read Only	Setting this to Read O Unchecking this allow	nly will only display s you to override de	content efault		
~	Active / Visible	merge mechanic Unselecting this will h permanently delete)	ide this column (bu	t will not		
Shar	res content with	~	Selecting an Only other	n option here will p columns in the san	roject that data in this column. This will automatically set this column e template can be selected, but they don't have to be in the same fo	as Read Only. rm.
Fallb	oack content	~	lf content s conditional	hare column is em Advanced Feature	oty, the system will display this data instead. This allows content proj	ection to be
						\odot \checkmark



Edit Column Properties

- 1. **Column Visibility**: Add/remove column from a form.
- 2. **Header Text**: Edit Display Text for a column.
- 3. **Color and width**: Set a color for the column header or adjust the width of the column.
- 4. **Column properties**: Set a column to Read Only to prevent users from updating the data, enable/disable column data merging or hide the column.
- 5. **Advanced properties**: A custom column can be set up to display content from other columns via selections in "Shares content with" and "Fallback content".

Action Priority Editor

Effect S T		Prediction of Failure Cause Occurring	0 🗸	Ability to Detect	D ⊽	Action Priority (AP)		Status
				Low - Very low	7-10	н	~	Default
		Marcallink	0.10	Moderate	5-6	н	~	Default
		very nign		High	2-4	н	~	Default
				Very High	1	н	~	Default
			6-7	Low - Very low	7-10	н	~	Default
				Moderate	5-6	Н	~	Default
		nign		High	2-4	н	~	Default
				Very High	1	н	~	Default
Product or Plant Effect Very High	9-10			Low - Very low	7-10	н	~	Default
				Moderate	5.6	u	~	Default

In the Action Priority Editor tab, you can choose to change the resulting Action Priority ratings for rows in the CTS View based on any given S/O/D conditions.



Parts

Part and Project records are central to the CTS Software. Before proceeding to create your first APQP or PPAP Project, you must first create a Part record.

Create New Part Record



- 1. Create New Record: Create new Part record.
- 2. **Print/Export:** Export list to supported file formats.
- 3. **Help:** Interactive help tutorial.
- 4. **Search:** Filter data and highlight search results for records displayed in grid list.

Overview of Part Records

Primary Navigation

🔂 Home	Parts	Projects	Gage Studies	C Actions			2134 + ∦ ₽ ?
					I	+ 🔟 🖉 🗸	< / ₽ ?

- 1. **Edit:** Edit (and delete) record. When in edit mode, other users will not be able to edit the record. Once you click the green save icon, the record is locked and you will need to click 'edit' again if you want to continue editing.
- 2. **Add Menu Options:** Provides expanded options, including the ability to create new part revision and copy record (see below).



- 3. **Print/Export:** Export record to supported file formats.
- 4. Help: Interactive help tutorial.

Record Details

Master Part Details

This section contains Master Part details. The information entered in this section <u>persists across all</u> <u>part revisions</u> for this part record.



Part Number:	Suppliers Cus	tomers		2 🗄
Part Name:	Name	Division	Plant	Orga
	ABC Company	Ignition	12	IS21810 🗰
1 My Location ×				
Part Status:				

- 1. **Location Assignment:** Account security (permissions) is based on the Locations assigned to users. If you are assigned to a location, you will have complete access (view, edit, delete). Users can be assigned to 1 or more locations.
- 2. **Supplier / Customer:** List customers you sell this part to and/or suppliers you buy this part from. You can add a new company record directly or select from existing company records. Click the (+) icon to select from existing records or add new records.

Part Revision Details

This section contains Part Revision details. The information entered in this section is associated to a specific part revision and does <u>not</u> automatically persist across all part revisions.

Part Type Subsystem		~	1 REV	Status Draft V	Date +	● Buy Part ○ Make Part
Part Stage Pre-Launch		~	2 Projects	3 Attachments		I
Primary Product Family		~		No da	ata to display	
Secondary Product Families						
Search Tags						
Notes						
Product Characteristics	Process Characteristics	Operations	вом			

1. **Revision Details:** Manage part revision number/id., status and date.



- 2. **Projects:** Create and link new project to this part revision to manage APQP or PPAP project activities. Projects linked with this part revision will display in this section. To quickly add a new project for this part revision, click the (+) icon.
- 3. **Attachments:** Upload general attachments for reference.
- 4. **Product/Process Characteristics, Operations, and BOM:**
 - i. Enter and manage characteristics and operation records for this specific part revision.
 - ii. The BOM allows you to relate components, sub-components, sub-assemblies and parts used in a part assembly. You can either create component part records within CTS or simply add as a reference.
- 5. Navigate Between Part Revisions: Use the tabs to navigate between part revision records.

Product Characteristics, Process Characteristics, and Operations Details

Characteristics and Operations details may be entered and managed directly from the Part record detail page. Entries can be added one by one or uploaded using the import feature. Entries made at the Part record detail level may then be looked up and added through the Forms tab for the associated Project(s).

NOTE: You may also add records via the Reusable Library available in the Admin section (refer to Admin > Add Data to Lookup Library section for further details).

Product Characteristics	Process Characteristics	Operations	BOM					
							2 1	,
Number/ID	Characte	ristic		Specification / Tolerance	Clas	ſS	1 +	
							~ 3 🛅	
18	Appearar	nce		Free of Blemishes	Majo	or	Ē	
18	No Blemi	No Blemishes		Flow Lines		ty;Special	Ē	
19	Mounting	Mounting Hole Location		Hole "X" Location			Ē	
19	Mounting	g Hole Location		25 + 1mm			Ē	
20	Dimensio	on		Gap 3 + 5mm			Ē	
21	Perimete	r fit		Gap 3 + 5mm			Ĩ	

- 1. Create New Record: Add new record.
- 2. Import: Import records.
- 3. **Delete:** Remove record entry.



Add New Part Revision

🔂 Home P	Parts Projects	Gage Studies	() Actions	1			P165
						0	+∥≧?
						C B	↓ ↓ + 🖋 🚔 ?
3 Part Number: P165			*	Suppliers Custo	mers		
Part Name: Part Record #1			*	Name	Division	Plant	Organi
Location: My Location			*	ABC Company	Ignition	12	IS21810
Part Status:			*				
Part Type:				-REV	tus: Dat	te	Buy Part
Subsystem			~	1.2 D	raft ~ 1/	/17/2020 ~	 Make Part

- 1. **Add Menu Options:** Provides expanded options, including the ability to <u>create new part</u> <u>revision</u> and copy record.
- 2. **Create New Part Revision:** If selected, you will have the option to select what information you want to duplicate and include in the new part revision. Once a new revision is created, a new tab will appear for the new revision on the Part record detail page.
- 3. **Master Part Details:** This section includes Master Part details. The information entered persists across all part revisions.

Copy Part Record

🔒 Home	Parts	Projects	Gage Studies	Actions	PIES
					+2=2

- 1. Add Menu Options: Provides expanded options, including the ability to create new part revision and <u>copy record.</u>
- 2. **Copy Part:** If selected, you will have the option to select what information you want to duplicate and include in the new (copied) part record.

Page **15** of **39**



Projects

Part and Project records are central to the CTS Software. Before proceeding to create your first APQP or PPAP Project, you must first create a Part record.

Create New Project Record

🔂 Home	Parts	Projects	Gage Studies	(1) Actions		123					
4 Enter text t	to search				Search Clear	+ 🖨 ?					
1. C i	1. Create New Record: Create new Project record.										
2. P I	2. Print/Export: Export list to supported file formats.										

- 3. **Help:** Interactive help tutorial.
- 4. **Search:** Filter data and highlight search results for records displayed in grid list.

Part Type Subsystem v	REV ★ Status 1.1 Draft ✓ 6/30/2020 ◯ Make Part
Part Stage Pre-Launch v	Projects Attachments
Primary Product Family	1 _PPAP Demo Project →
-Secondary Product Families	Project Details
-Search Tags	
Notes	

NOTE: A new Project can also be created directly from a Part detail record page. This will automatically associate the newly created project with the specific Part / Part Revision.



Overview of Project Records



	,		5					
	🔒 Home	Parts	Pro	ojects	Gage Studies	() Actions		
	5	6	7	8	9		10	+ 🖉 🚔 ?
	Details	Tasks	Forms	Meetings	Team Members		History	
_	_							

- 1. **Edit:** Edit (and delete) record. While in edit mode, other users will not be able to edit the record. Once you click the green save icon, the record is locked and you will need to click edit again if you want to continue editing.
- 2. Add Menu Options: Provides expanded options, including the ability to copy record.
- 3. **Print/Export:** Export record to supported file formats.
- 4. **Help:** Interactive help tutorial.

<u>Project Tabs</u>

- 5. **Details:** Manage general project details.
- 6. **Tasks:** Create, assign and manage project tasks. Upload attachments to tasks, add external links (URLs), add system linkage to gage studies and download template forms.
- 7. **Forms:** Create and manage DFMEA, Process Flow, PFMEA and Control Plan forms. You can use a standard template or assign a custom template. Custom templates provide the ability to display the information in user definable formats and are managed in the Admin section.
- 8. **Meetings:** Create and manage project meeting records.
- 9. **Team Members:** You may add and track project team members from here. Once added, team members will appear on the details page.
- 10. **History:** Keep track of project change history/log with details on what changed and who made the change.



1.0.1.1

ке	cord Details		
Г	Details Tasks Forms Meetings Team Members		History
	P165 → 1.1 → _PPAP Demo Project Project NamePPAP Demo Project	*	Test User testuser@yourcompany.c Team Leader Sample User1 user1@yourcompany.com Team Member
1	Location(s) Detroit	* *	Sample User2 user2@yourcompany.com Stakeholder
	PPAP Active	~	5 6 7 Attachments Releases Published Projects
2	Part P165 (Part Record #1) / 1.1	~ *	🗎 🖹 🎗 🐺 🔁 🗃 🌐 Filter by:
3	From (CIS) / [To (ID)	~	All Files
	Customer/Supplier (Secondary) Part Number Information(cli	ck to expand)	4
	Description		Dimension Part Submi
	Priority	~	
	Start Date Due Date 11/5/2021 11/19/2021		
	Search Tags		
	- Model/Year		

- 1. Account security (permissions) is based on the Locations assigned to users. If you are assigned to a location, you have complete access (view, edit, delete). Users can be assigned to 1 or more locations.
- 2. Every project must be associated with a part record. You can manage multiple projects for the same part record at different part revisions. To add a secondary part number (customer or supplier part number), click the icon.
- 3. Track and associate projects with a specific customer, supplier or internal location. Available selection options based on customer and supplier records added to part record.
- 4. Add a secondary part number (customer or supplier part number).
- 5. Upload general attachments for reference or inclusion in Publish Project export.
- 6. The **Releases** tab lists all the project release files that can be created when saving changes on the Forms page.



7. The **Published Projects** tab lists all the project publish files. These files contain a detailed Project Report plus any task attachments indicated as a submission item. Attachments and links are included in the zip export.

Publish Project Example

				Name	Submission Item
⊡			\bigcirc	Example Demo Project - Seat Assembly	No
	-		Î	PPAP REQUIREMENTS	No
			Ś	Customer Engineering Approval	No
		+	1	Process Flow Diagram	Yes
		+	1	Process Failure Modes and Effects Analysis (PFMEA)	Yes
		+	1	Control Plan	Yes
		+	1	Measurement System Analysis (MSA)	Yes
		+	1	Dimensional Results	Yes
		+	✓ 🖄	Material / Performance Test Results	Yes
			1	Initial Process Studies	Yes
			Ś	Qualified Laboratory Documentation	No
			Ś	Appearance Approval Report (AAR)	No
			Ś	Sample Production Parts	No
			Ś	Master Sample	No
			Ś	Checking Alds	No
			1	Customer-Specific Requirements	Yes
		+	1	Part Submission Warrant (PSW)	Yes
				ProjectSummaryReport_1554389523.pdf	No
			D	customer_sow-requirements_2019.docx	No
				0	Cancel V Publish

\uparrow	🖡 > This PC > Downloads > Project - Exa	mple Demo Project - Seat Assem	nbly				~	U	Search Projec	t - Example Dem 🔎
	Name		Туре		Compressed size	Password pr	Size	Ra	atio	Date modified
	Task - PPAP REQUIREMENTS		File folder							
	ProjectSumaryReport - Example Demo Pr	roject - Seat Assembly	Adobe Acrobat	t Document	93 KB	No	97 KB		16	5/30/2019 5:19 AM
\uparrow	> This PC > Downloads > Project - Exa	mple Demo Project - Seat Assem	bly » Task - PPAP REQUIR	EMENTS			~	U	Search Task -	PPAP REQUIREM 🔎
đ	Name	Туре	Compressed size	Password pr	Size	Ratio	Date modified			
	ControlPlan_4_17_2019	Adobe Acrobat Document	98 KB	No	103 KB	5%	5/30/2019 5:19 AM			
	DimensionalTestResults	Microsoft Excel Worksheet	10 KB	No	14 KB	32%	5/30/2019 5:19 AM			
	FMEA_4_17_2019	Adobe Acrobat Document	98 KB	No	103 KB	6%	5/30/2019 5:19 AM			
	🔑 GageStudyReport_Demo Gage Study(Adobe Acrobat Document	85 KB	No	89 KB	5%	5/30/2019 5:19 AM			
	MaterialTestResults	Microsoft Excel Worksheet	10 KB	No	14 KB	31%	5/30/2019 5:19 AM			
	MSA Report	Adobe Acrobat Document	200 KB	No	204 KB	3%	5/30/2019 5:19 AM			
	PartSubmissionWarrant	Microsoft Excel Worksheet	23 KB	No	36 KB	37%	5/30/2019 5:19 AM			
	ProcessFlow_4_17_2019	Adobe Acrobat Document	92 KB	No	97 KB	5%	5/30/2019 5:19 AM			



Copy an Existing Project

🔂 Home	Parts	Projects	Gage Studies	Actions	_PPAP Demo Project
					+ / = ?
Details	Tasks	Forms Meeti	ngs Team Members	History	2
					① + 2 昌 2

- 1. **Add Menu Options:** Provides expanded options, ability to copy the project with all related records.
- 2. **Copy Project:** If selected, you will have the option to select what information you want to duplicate and include in the new (copied) project record.

Tasks

Primary Navigation

🔒 Home	Parts	Pro	jects 0	Gage Studies	() Actions		Preso De Preso
							+ / = ?
Details	Tasks	Forms	Meetings	Team Members		History	

- 1. **Task Edit**: Enable quick edit allows you to batch edit tasks and sub-task details in list view.
- 2. **Add Menu Options:** Provides expanded options, including the ability to add a new primary task, add tasks from template library and copy tasks from existing projects.
- 3. **Print/Export:** Export record to supported file formats.
- 4. **Help:** Interactive help tutorial.

Add Tasks to a Project / Assign Tasks

🔒 Home	Parts	Pro	ojects	Gage Studies	(I) Actions		_PPAP Demo Project
							+ 🖋 🚔 ?
Details	Tasks	Forms	Meetings	Team Members		History	123
							Ů Ð Ð + ≠ ≥ ?

- 1. Add Task(s) Copy from Project: Copy tasks from previous project. Select the desired project to show a list of tasks and select the task(s) you would like to copy.
- 2. Add Task(s) Task Template: Add tasks from the Task Template Library (primary tasks and sub-tasks). The default task templates include APQP Checklists, Bulk Material Requirements Checklist, PPAP Requirements and more.
 - NOTE: You can also create custom task templates in addition to the default templates. To create custom task templates, navigate to Admin > Task Template Library section.
- 3. Add Task(s) Single Task: Add a single blank task.



Τa	ask	List	t Viev	V										
	е н		Parts	Pro	ojects	Gage Studie	es	() Actions						_PPAP Demo Project
													÷	1 = ?
	Deta	ils	Tasks	Forms	Meetings	Team N	/lembers		History					
	١,					Priority	Status	Start Date		Oct-21				
		\odot	Design Re	cord - Customer L	Engineering Appr	Medium	Active	10/1/2021			80%			2 🕣
	4	\bigcirc	Authorize	d Engineering Cha	ange Documents		Active	10/19/2021					60%	
		\bigcirc	Customer	Engineering Appl	roval		Active							

- 1. Show Gantt Chart
- 2. Show Collapsed Gantt Chart
- 3. Hide Gantt Chart
- 4. Open Detail Task View

Manage Tasks / Sub-Tasks and Attachments

Tack	· Not	ail
TUSK	DCl	un

	meetings rearringende	13	Istory		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	AP Demo Project → Design	n Record - Customer Engin	eering Approva ∨		
Submission Item					
Task Name Design Record - Customer Engi	neering Approval				
-Notes					
Delevity	Ctatus				
Medium	Active	~	Attachments	Gage Studies Links	5
O Task				÷ 2 = =	Filter by:
)	0		🗀 All Files	All Files	
Responsible Person			I		
		¥			
Planned Start	Planned End				
	10/21/2021				
10/1/2021					
10/1/2021					
Actual Start	Actual End				
Actual Start Start anytime	Actual End End anytime				
Actual Start Start anytime	End anytime				



- Submission Item: Indicate whether a task / sub-task is a submission item. Submission items
 are automatically marked for inclusion in file export initiated by clicking "Publish Project" on
 the Project > Details screen.
- 2. Task Type: Indicate whether this is a milestone or standard task type.
- 3. **Responsible Person:** Assign a task to another CTS user. The dropdown includes all active CTS users. Upon assignment and saving the task record, the assigned user will receive an email notification from CTS with a link to access this specific task record.

Add Sub-Tasks

Ð	Name	Priority	Status	Start Date	End Date	Act. Start Date	Act. End Date	Responsible	96	Submission?

To add a sub-task, click the (+) icon, enter basic details and then save record.

All Files All Files Demo Gage Study (Example) Gage Study 1a Download Template forms Attachments Gage Studies Links Core Outplace Part Submission Warrant Performance Test Results Part Submission Warrant Performance Test Results Product Quality Planning and Approvals Truck - Product Process Change Notification External link Orec Core	한 🖹 🎗 🔾 🦊 🗃 🌐 Filter by:	Attribute testing	
Gage Study 1a Download Template forms Gage Studies Gage Studies Gage Studies Gage Studies Gage Studies Gage Studies Characteristics Matrix Control Plan Special Characteristics Data Point Coordinates Dimensional Test Results Material Test Results Part Submission Warrant Performance Test Results Part Submission Warrant Performance Test Results Part Submission Warrant Performance Test Results Part Submission Warrant Truck - Part Submission Warrant Characteristics Dimensional Test Results Part Submission Warrant Truck - Part Submission Warrant	All Files All Files	Demo Gage Study (Example)	
 Download Template forms Appearance Approval Report Bulk Material Interim Approval Form Characteristics Matrix Control Plan Special Characteristics Data Point Coordinates Data Point Coordinates Dimensional Test Results Data Point Coordinates Dimensional Test Results Part Submission Warrant Performance Test Results Product Quality Planning and Approvals Team Feasibility Commitment Truck - Part Submission Warrant Truck - Part Submission Warrant Truck - Part Submission Warrant Truck - Product Process Change Notification External link 		Gage Study 1a	
Attachments Gage Studies Links Upload Gage Studies Download Template forms External link Attachment Ink Characteristics Matrix Control Plan Special Characteristics Data Point Coordinates Dimensional Test Results Material Test Results Part Submission Warrant Performance Test Results Truck - Part Submission Warrant T		 Download Template forms 	
Bulk Material Interim Approval Form Characteristics Matrix Control Plan Special Characteristics Drop file(s) here Browse Upload The Browse Upload The Browse Upload Drop file(s) here Browse Upload Drop file(s) here Browse Upload Data Point Coordinates Dimensional Test Results Material Test Results Part Submission Warrant Performance Test Results Product Quality Planning and Approvals Team Feasibility Commitment Truck - Part Submission Warrant Truck - Product Process Change Notification External link		Appearance Approval Report	
Chracteristics Matrix Control Plan Special Characteristics Data Point Coordinates Data Poi		Bulk Material Interim Approval Form	
Control Plan Special Characteristics Control Plan Special Characteristics Data Point Coordinates Data Point Coordinates Dimensional Test Results Material Test Results Part Submission Warrant Performance Test Results Product Quality Planning and Approvals Team Feasibility Commitment Truck - Part Submission Warrant Truck - Product Process Change Notification External link		Characteristics Matrix	
1 Drop file(s) here Browse Upload Attachments Gage Studies Links Gage Studies Download Template forms External link Image: Close Data Point Coordinates Dimensional Test Results Material Test Results Part Submission Warrant Product Quality Planning and Approvals Team Feasibility Commitment Truck - Part Submission Warrant Truck - Product Process Change Notification External link External link External link		Control Plan Special Characteristics	
1 Drop file(s) here Browse Upload Attachments Gage Studies Links Gage Studies Cose Dimensional Test Results Material Test Results Part Submission Warrant Performance Test Results Product Quality Planning and Approvals Team Feasibility Commitment Truck - Part Submission Warrant Truck - Product Process Change Notification External link		Data Point Coordinates	
Attachments Gage Studies Links Part Submission Warrant Gage Studies Performance Test Results Download Template forms Team Feasibility Commitment External link Truck - Part Submission Warrant Close External link	Drop file(s) here Browse Upload	Dimensional Test Results	
Attachments Gage Studies Gage Studies Gage Studies Download Template forms External link		Material Test Results	
Gage Studies Predformance Test Results Download Template forms Product Quality Planning and Approvals External link Team Feasibility Commitment Truck - Part Submission Warrant Truck - Product Process Change Notification Close External link	Attachments Gage Studies Links	Part Submission Warrant	
Gage Studies Product Quality Planning and Approvals Download Template forms Team Feasibility Commitment External link Truck - Part Submission Warrant Close External link		Performance Test Results	
Download Template forms Team Feasibility Commitment External link Truck - Part Submission Warrant Truck - Product Process Change Notification External link	Gage Studies	Product Quality Planning and Approvals	
Close Truck - Part Submission Warrant Truck - Product Process Change Notification External link External link	Download Template forms	Team Feasibility Commitment	
Close Close External link	External link	Truck - Part Submission Warrant	
Close External link		Truck - Product Process Change Notification	
	O Close	External link	

Manage Attachments

 Upload Standard Attachment: To upload an external attachment, drag and drop files or click 'browse' to select files from your local network folder. NOTE: A common use case for standard attachments is to attach files DFMEA, Process Flow, PFMEA, and Control Plan files generated and exported via the Project > Forms tab.



- 2. **System Linkage Attachments:** The system linkage attachment feature is comprised of three types of attachments (refer to 3-5 below for further information).
- 3. **System Linkage Attachment Gage Studies:** Link project task record to an existing Gage Study record. If the associated task is included in the "Publish Project" export, the system will retrieve the Gage Study record details and attachments and include in the export package.
- 4. **System Linkage Attachment Template Forms:** Many of the legacy spreadsheet forms included on the AIAG Excel CD can be added to task records. Once added, the system will populate sections of each form that exists in CTS for the associated Project / Part record.
- 5. **System Linkage Attachment External Link:** Include external link to URL. The provided URL will be included in the "Publish Project" export report.



Forms

Create and manage your Process Flow, PFMEA, Control Plan and DFMEA records.

Primary Navigation

																89	₽
																/ 🚔	<u>t</u> ?
1	Det	ails CTS VII	Ta EW	sks For PROCESS FL	ow	Meet	ings Team Members	DFMEA	History					34	•	6 7	
2	femp	late:	AIAG F	PFMEA 4th Edi	tion		~							۹ 🕲 (ALERTS		s (0) 🗸
10	Visit	ility 🖯	0			Op	erations	Characteristics									
	Process How	PFMEA Control Plan	Linkage	Process V Step	Operation Types	Fabrication	Operation Desc./Func.	Produ Characte	ct ristic 💟	Product Characteristic Description		Process Characteristic Item	Process Characteristic	Specification / Tolerance	C	ontrol Methods	(%) EU [X}
	~	~ ~]			٠		1		Quantity of Screws							-

- 1. **Form Tabs:** The CTS View is an integrated interface that allows you to simultaneously prepare the Process Flow, PFMEA and Control Plan forms. NOTE: DFMEA is not part of the CTS View and is managed separately. Click the CTS View tab to access the integrated view. You can also click each individual form tab to view and edit form-specific information.
- 2. **Template Manager:** Allows you to add new columns, hide columns and define whether a column should be included in the Process Flow, PFMEA and/or Control Plan. You may select the standard CTS View Template or a custom CTS View Template. You can also create and manage templates through the Admin section.
- 3. **Search:** The search panel allows you to filter data and highlight search results for records displayed among the grid list.
- 4. **History:** See all the changes made to the selected form and optionally export a list of those changes to a PDF. *See below for more details.*
- 5. **Alerts:** Any alerts of changes within the system that may affect your existing form data are shown here. *See below for more details.*
- 6. **Actions:** Bring the right side of the FMEA to life with the Actions Tracker. Use the actions panel to keep track of your PFMEA and DFMEA improvement actions. Simply click on an action to navigate directly to that row.
- 7. **Full Screen Mode:** Maximize to Full Screen Mode for CTS View, Process Flow, DFMEA, PFMEA and Control Plan.
- 8. **Edit Mode:** Click to enable edit mode. When in edit mode, other users will not be able to edit the record. To save your changes and return to view only mode, click the green save icon in the top menu. To save your changes but remain in edit mode, click the green save icon below the forms grid.
- 9. **Print/Export:** Export records to supported file formats. You can then attach the export file to a task to include within publish project submission package.
- 10. **Row Visibility:** The row visibility feature in CTS View provides you with complete control; you can hide or show an operation in your Process Flow, PFMEA and Control Plan.

Page 24 of 39



11. **Import:** Bring forms from your organization into the system by importing them from an Excel sheet using our import function. Existing operations and characteristics will automatically be linked to the form and any new ones will be added to the associated part.

Г	۸	Company	Parts / Projects /	Gage Studies	Reusable Library	CTS View	DFMEA	Templates	Usage Reports	System	
ч [с	ou have 3 op 1. Regular 2. Copy/Pa 3. Import a Type TSView Template UAG & VDA P BATCH EE	tions for editing an ste data from Ex comma-separat	d importing data for ig: enter data quik cel - simply select ted file (optionally dard) STE FROM FILE	all lookups: ckly and with the cells you y - use the pro	proper validation. want to import an wided template).	d paste them into	the indicated a	rea.			
				Ope	rations						
		Proce	ss Step	Operat	tion Type	Operation Desc./	Func.	Product Characteristic	Item Pro	duct Characteristic Description	
					N	o data to display					

a. In BATCH EDIT mode, you can view and manually edit data uploaded from COPY/PASTE and FROM FILE before importing into the system.

o copy/paste your data (any number or records) -	simply select the range in Excel, copy - and paste it	Paste text to import here (from Excel)	
nto the area to the right. That will automatically po	pulate the grid - and allow you to designate which		
olumn contains which property. The order of the	columns is:		
) Mandatory columns Copy columns template.			

b. COPY/PASTE will allow you to copy data in an Excel sheet and paste it into the area provided. The import utility will then parse the information into the columns in the selected form.



c. When you import from a file, simply drag and drop the file or use the Browse button to locate the file.

Note: After the import is completed, please select the applicable row visibility checkboxes (i.e. Process Flow, PFMEA, and/or Control Plan) to ensure the imported data appears in the desired forms.



Managing Form Records

Add New, Edit, Copy, Delete and Move Records

You can manage records directly from the CTS View tab and the individual form view (Process Flow, PFMEA, Control Plan and DFMEA).

U CTS VIEW PROCESS FLOW PFMEA CONTROL PLAN PFMEA

	CTS VIEW	PR	DCESS	FLOW	PFMEA	CONTROL PLAN						5.3
	Template: AIAG 8	VDA	PFME	A Form	n C (Standard)	6						rs 🗸 🚺 ACTIONS (0) 🗸
		Visi	bility G	•		Operations				Characteris	tics	
		Process Flow	PEMEA Control Disc	Linkage	Process 🔗 Step 🐚	Operation Type	Operation Desc./Func.	Product 😥 Characteristic Item	Product Characteristic Description	Process Characteristic Item	Process Characteristic Description	Specification / Tolerance
1	+ 0 0 +	Y	2	2	20 ~	◆ Fabrication ∨	Attach seat cushion to track using torque gun (air pressure)	1 ~	Quantity of Screws	~		*
	<mark>3}∄€⊕</mark>	Y		1	20	◆ Fabrication	Attach seat cushion to track using torque gun (air pressure)				Torque equip. adjust	
	4)6+	¥		3	20	◆ Fabrication	Attach seat cushion to track using torque gun (air pressure)	1	Quantity of Screws			
5	+5)+	Y		3	20	◆ Fabrication	Attach seat cushion to track using torque gun (air pressure)	1	Quantity of Screws			
	4				_							~
	Page 1 of 1 (4 item	is) <	[1]									Page size: 100 🗸

- 1. Add New Row: Add new <u>blank</u> row below.
- 2. **Edit Records:** To edit a record, simply click anywhere in the grid. To save your changes and return to view only mode, click the green save icon.
- 3. **Copy Row:** All data for this row will be <u>copied</u> and added as a new row entry below.
- 4. **Delete Row:** Deletes entire row record.
- 5. **Move Row Up/Down:** Use the up/down arrows or move icon to change the positioning of a row.
- 6. **Product and Process Family Libraries:** Shows a popup that will allow you to add rows to the form from the Reusable Library. *See below for further details.*

23



Lookup Lists

Multi Control: Allows the user to select from records entered for the Part > Part Revision associated with this Project or via the Reusable Library – Product/Process Characteristics and Operations (managed in the Admin section). NOTE: A user can also add new values directly, however new entries are not automatically added to the Part record or Reusable Library (Admin) record sets.

🔟 CTS VIEW 📄 PROCESS FLOW	/ 📮 PFMEA	🖸 CONTROL PLAN 📮 DFMEA						5.3
Template: AIAG & VDA PFMEA For	m C (Standard)	~ 💷					٩	🚯 ALERTS 👻 🚺 ACTIONS (0) 👻
Visibility 🖲		Operations				Characteris	tics	
Process Flow PFMEA Control Plan Linkage	Process 😥 Step 😿	Operation Type 🔛	Operation Desc./Func.	Product Characteristic Item	Product Characteristic Description 🔯	Process Characteristic Item	Process Characterist Description	c Specification / Tolerance
+ 0 0 + V	20 ~	◆ Fabrication ✓	Attach seat cushion to track using torque gun (air pressure)	I ~		~		
				ltem	Characteristic	Classifi	cation Specification/T	olerance
+ 🖻 🗴 🖌 🗆 🗆	20	Fabrication	Attach seat cushion to track	* 101	Hole Position			
			using torque gun (a) pressure)	₩ 102	No Burr (hole region)			
+ @ • • • •	20	Fabrication	Attach seat cushion to track using torque gun (air pressure)					
Product Characteristics	Process C	.naracteristics Operati	ions BOM	_				
							£	
Number / ID	*	Characteristic	Specification	n / Tolerance	Class			
101		Hole Position						
102		No Burr (hole region)						
				_	_		_	
				Company	y Parts / Pr	ojects / Ga	ge Studies	Reusable Library
				-				
			Product C	haractoristic	°6			
			Process Ci	haracteristic	.5			
			Operation		.5			
			Operation	15				

Single Control: Allows the user to add new values directly or select from existing values.

CTS VIEW	PR PR	DCESS	FLO	W PFMEA CONTROL	PLAN	DFMEA						53
Template: AIAG	& VDA	PFME	A Fo	orm C (Standard) 🗸 💷	3		RTS 🗸 🚺 ΑCT	i 🗸 🚺 ACTIONS (0) 🗸				
	Process Flow	oility C		Failure Effects (FE) :: End User	s 🕅	Fallure Mode (FM) of the Process Step	Failure Cause (FC) of the Work Element	Current Prevention Control (PC) of FC	0 Current Detection	Controls 🕅 D	PFMEA 🖈	Spe
+06+	V				~	~	~	~		~	~	^
+ 0 6 +	¥								Value			QkVMp
+06+	¥		2						3 4 5 6			



Form Header Data

Header data added to your Process Flow, FMEA and Control Plan will save and persist. When you first export a form, any data that already exists based on the records entered in CTS will auto populate. NOTE: *The view/edit header data functionality is not available in CTS View.*

😑 CTS VIEW 📮 PROCESS FLOW 📄 PFMEA 🛄 CONTROL PLAN 📄 DFMEA	A	23
Template: AIAG & VDA PFMEA Form C (Standard) V		Q 🕚 Actions (999) 🗸 🕄 Actions (0) 🗸
Stage	Control Plan Number	Date (Orig.)
Part Number P165	Organization / Plant	Date (Date Rev.)

Pin Columns

The pin columns feature allows a user to temporarily freeze columns to the left side of the grid while freely scrolling through the rest of the form. This feature is similar to the "freeze panes" option available in spreadsheet applications and is available when viewing and editing forms in CTS.

	CTS VIEW 🔄 PROCESS FLOW 🛄 PFMEA 🚍 CONTROL PLAN 🚍 DFMEA	[23]									
Tem	Template: AAG & VDA PF CA Form C (Standard) V 🚦										
	Structure Analysis (Step 2)										
Linkage	1. Process Item I: System, Subsystem, Part Element or Name of Process 2b. Process Step I: Name of Station (m) Number 2b. Process Step I: Name of Station (m) Number 3a. Process Work Element III 4M Type 3b. Process Work Element Description	Image: Second									

Filtering Column Values

The filter feature allows a user to temporarily display only the rows that match specified values in one or more columns, allowing for a targeted search of all Form data by any criteria the user chooses.

	CTS VIEW 🔲 PROCESS FLOW 🛄 PFMEA 📄 CONT	TROL PLAN				5.3					
Те	Template: ALAG & VDA PFMEA Form C (Standard) V										
		Structure Analysis (Step 2)									
	1. Process Item :: Systed: Subsystem, Part Element or T Name of Process Number	Process Step :: Name of Y Focus Element With Element :: Y 4M Type	3b. Process Work Element :: Description	1a. Function of the Process V Item :: Your Plant	1b. Function of the Process Item :: Ship to Plant	1c. Function of the Process 5 Item :: End User					



Hide Columns

The hide column feature allows a user to temporarily hide columns for the purpose of bringing relevant information into view to reference during data entry, reducing the need to scroll back and forth across the form. This feature is also available when viewing and editing forms in CTS.

	CTS VIEW	PROCESS FLOW 🛄 PFMEA	CONTROL PLAN						8.3			
Temp	olate: AIAG & V	DA PFMEA Form C (Standard)	× 🖪					S (999) 🗸 🚺 AC	TIONS (0) 🗸			
		Str	ucture Analysis (Step 2)					Function Ana	lysis (Step 3)			
Unkage	2a. Process Step :: Station Number	2b. Process Step :: Name of 🏹 Focus Element	3a. Process Work Element :: 4M Type	3b. Process Work Element :: Description	1b. Function of the Process Item :: Ship to Plant	1c. Function of the Process Item :: End User	2a. Function of the Process Step	2b. Product Characteristic Item	2c. Proc			
	20	Attach seat cushion to track using torque gun (air pressure)						1	Quantity (
4 Page Hido	age 1 of 1 (3 Items) ([1]) Page size: 100 v Iidden Columns: (1, Process Item :: System, Subsystem, Part Element or Name of Process (1a, Function of the Process Item :: Your Plant (Unhide All) Click any hidden column to unhide -or click Unhide All											



Forms History

CTS VIEW	🔟 CTS VIEW 💷 PROCESS FLOW 🔲 PFMEA 🖾 CONTROL PLAN 🔛 DFMEA										
Template: AIAG	& VDA PFMEA Form C (Sta	andard) ~					۹ 🕥	🔶 ALERT	s 🗸 🚺 Actions	(0) 🗸	
Visibility		Operations			Cha	Change Log - CTS VIEW					
Process Flow PFMEA Control Plan Linkage	Process Step 0 De Lation 1/Mars	Operation Desc./Func.	Product Characteristic V Item	Product Characteristic Description	Process Characterist	11/24/2021 (by Text User) @10:46 AM added Process Step 20 11/24/2021 (by Text User) @10:46 AM added Process Step 20 11/24/2021 (by Text User) @10:46 AM Process Step 20 Anaged Process Step from "10" to "20"			Control Methods	(M) (L) (N)	
VVV			1	Quantity of Screws		* 3 other change(s) (see details) 11/24/2021 (by Test User) @10:46 AM added Process Step 20 11/5/2021 (by Test User) @3:17 PM Process Step 10 changed Product Characteristic Descript position" to "Nole position"	ion from "Hold			*	
	•	Attach seat cushion to track				11/S/2021 (by Test User) @3:17 PM added Process Step 10					
V V V	•	using torque gun (air pressure)				ошт	PUT CHANGE LOG				
N N N			1	Quantity of Screws							
4										×.	
Page 1 of 1 (4 iter	age 1 of 1 (4 items) < [1] >										

All changes made to the selected form are shown, along with the name of the user that made the change, and the date and time. These changes can then selectively be exported as a report.

Alerts

	CTS	/IEW	PROCESS FLOW	N 🖬 PF	MEA	DFMEA					3		
Ten	plate:	AIAG	& VDA PFMEA Fo	rm C (Stai	ndard) ~						~		
Vis	ibility	0			Operations			Characteristi	ics				
Process Flow	PFMEA	Control Plan Linkage	Process Step	Operation Types Fabrication	Operation Desc./Func.	Product Characteristic V Item	Product Characteristic Description	Process Characteristic Item		REVIEW REQUIRED ACKNOWLEDGED ACKNOWLEDGED Al Methods Part Updated: Part Record #1, has been updated by testuser@vourcomany.com at the Part level: the			
V	V	v		٠		1	Quantity of Screws			Part Name was altered from "Part Record" to "Part Record #1". Please update your records accordingly or reselect this Operation from the Lookup dropdown to update the linked cells.			
V			20	•	Attach seat cushion to track				Torc				
~	V	~		•	using torque gun (air pressur	e) 4	Quartic of Secure			Part Copates: Part Record #1, has been updated by testuser@yourcompany.com at the Part level; the Part Number was altered from "P165A" to "P165". Please update your records accordingly or reselect			
~	V	~					1	quantity of screws.			this Operation from the Lookup dropdown to update the linked cells.		
∢ Pa	ge 1 o	f 1 (4 ite	ms) < [1] >							Page size: 100	•		

Alerts will let you know if changes that may affect the data in your forms have been made by other users in your account. Along with specific information about the change, there are instructions about your choices to keep your original information or to update it with the latest changes. Once you have reviewed the alert, you can acknowledge it to remove it from your list.



Product and Process Family Libraries

In edit mode on the Forms page, you can select rows from the Reusable Library to add to your forms by clicking the Library icon to launch the popup shown below:

Template: AIAG & VE	PROCESS F	LOW PFMEA						Q ALERTS V	ACTIONS (0)
	roduct Li	ibraries Pro	cess Families						×
— H		records from Pro	duct Family and M	laster Libraries:		Z Foundatio	on Product Family 1 Product	Family 2 Product Family 3 Al	
	v seler	step	Туре	Description	Process Step Function	Process Work Element	Process Work Element Desc.	Func. of the Process Work Elem	
1	~	25	 Fabrication 	Packaging					ь.
	~	5	O Move	Move product to line					н.
								O Cancel Save Changes	

- 1. **Product Libraries and Process Families tabs:** Choose rows for your form based on the Product Families specified for the part associated with this project or Process Families.
- 2. **Product Library menu:** Click on the Product Family items to display (or hide) rows for individual families.
- 3. **Row selection:** All visible rows can be selected using the "select all" checkbox or you can choose individual rows to include or exclude.

When you have made your selections, simply click the "Save Changes" button and the rows will be added to your form.



Process Flow Visualization

When not in edit mode, the Process Flow template features a diagram under the Operation Types header column that visually displays the flow using symbols and arrow connectors. There are options to display the diagram in either a single column or multiple columns, to hide all columns outside of Operations and to switch to Visual Mode. In this mode, which is print friendly, there is only a diagram displayed with the information from all columns shown next to the process steps.

🔳 CTS VIEV	w 🛄	PROCESS	FLOW	📮 PFM	IEA 🛛 🚍	CONTROL PLAN	EA	2	3				
Template: A	NAG & V	DA PFME	A Form	C (Stand	lard)	× 🗄 🔮	0 ⁴ 0	Operations O	nly Visual Mode (Pri	nt Frienc	lly)		
				Operatio	ons					Characte	ristics		
Process Step	Operation Types	Fabrication	Store	Move	Inspect	Operation Descriptio		Product Characteristic	Product Characteristic Description		Process Characteristic	Process Characteristic Description	
10				9									
20		•				Punching		160	Cylindricity				
30													
40				Ŏ									

- 1. **Single or multi-column process flow:** Process flow diagram can be shown with all operation type columns or collapsed to a single column.
- 2. **Operations Only:** Quickly hide all columns outside of Operations.
- 3. **Visual Mode:** Display the Process Flow as a single diagram with all column data included:

🔲 CTS VIEW 🛄 PROCESS FLOW 🔲 PFMEA	CONTROL PLAN	
Template: AIAG & VDA PFMEA Form C (Standard)	× □	Operations Only Visual Mode (Print Friendly)
Process Step: 10 Operation Description:	9	
Process Step: 20 Operation Description: Punching	•	Product Characteristic Item: 160 Product Characteristic Description: Cylindricity
Process Step: 30 Operation Description:		



Meetings

🔒 Home	Parts	Projects	Gage Studies	() Actions	
					+ 🖨 ?
Details	Tasks	Forms Meetings	Team Members	History	
4 Enter t	ext to search				Search Clear

- 1. **Create New Record:** Create new Meeting record.
- 2. **Print/Export:** Export list to supported file formats.
- 3. **Help:** Interactive help tutorial.
- 4. Search: Filter data and highlight search results for records displayed in grid list.

Team Members

4	Home	Parts	Pro	ojects	Gage Studies	(!) Actions			1	_PPAP Demo Pro
									0 ~	∂ 🔒 ?
Г	Details	Tasks	Forms	Meetings	Team Members		History			
										0
		Name			Lev	el		Email Address	(2 🛨
	\bigcirc	Test User			Tea	m Leader		testuser@yourcompany.com	1	3 📶

- 1. **Edit:** Click to enable editing.
- 2. Add New Team Member: Select team member based on persons registered in CTS. Upon assigning a person and saving the record, the assigned user will receive an email notification from CTS with a link to navigate to this specific project record.
- 3. **Remove Team Member:** Click to remove team member from Project.



History

me Parts Projects	Gage Studies	Actions				_	new p
Tasks Forms !	Aeetings Team Members	History				2	
rrch 14, 2019 Septembe (Created))	020 February 28, 202	O	April 8. 2020	April 17, 2020	Oecember 15, 2020	June 1. 2021 (Current)
Before Change		After Chang	e on 4/17/2020	Details	-4 Current State (as	of 6/1/2021)	
Name new project for Pa	irt5(B)	Name	new project for Part5(B)		Name	new project for Part5(B)	
Location(s)		Location(s			Location(s)		
Type APQP Active	Priority	Туре	APQP Active Priorit	у	Type APQP	Active Priori	by
Part / Revision Part5	engine B	Part / Revi	sion Part5 engine	В	Part / Revision	Part5 engine	В
Start	End	Start	End	۲	Start	End	
From / To (CIS/ID)		From / To	(CIS/ID)		From / To (CIS/	D)	
Model / Year		Model / Ye	ar		Model / Year		
1 Team Member(s)	Process Flow	1 Team	Member(s)	Process Flow	1 Team Mem	ber(s)	Process Flow
0 Task(s)	PFMEA	0 Task(s		PFMEA	0 Task(s)		PFMEA
0 Meeting(s)	Control Plan	3 2 Meetir	g(s)	Control Plan	2 Meeting(s)		Control Plan
0 Attachment(s)	DFMEA	0 Attach	ment(s)	DFMEA	0 Attachment	(5)	DFMEA
						_	

Project History shows a timeline of dates of changes to the project. Dates can be selected to view the changes that occurred on that date (middle panel) as well as the state of the project before the changes (left panel) and the current state of the project (right panel).

- 1. **Timeline:** Select a date on the timeline to view changes on that date.
- 2. **Panel icons:** These icons above the timeline indicate the dates that correspond to the project information displayed on each of the three panels.
- 3. **Highlighted changes:** Changes to the project for the selected date are highlighted in the middle panel.
- 4. **Details link:** Click this link to view a popup window of specifics about the changes including who made each change.



Gage Studies

There are two ways to enter Gage Studies in CTS. You can either upload studies generated outside of CTS as an attachment or directly enter gage study data to generate and view results reports for supported study types Variable (TV/Tol), ANOVA and Attribute. Once entered, gage study records can be simply linked to project tasks.

Create New Gage Study Record



- 1. Create New Record: Create new Gage Study record.
- 2. **Print/Export:** Export list to supported file formats.
- 3. **Help:** Interactive help tutorial.
- 4. **Search:** Filter data and highlight search results for records displayed in grid list.

Overview of Gage Study Records

Primary Navigation

	0				
🔒 Home	Parts	Projects	Gage Studies	Actions	0000
					+ / /
5	6				
Details	Data Entry	Results			
Details	Duta Entry	Results			

- 1. **Edit:** Edit (and delete) record. While in edit mode, other users will not be able to edit the record. Once you click the green save icon, the record is locked and you need to click 'edit' again if you want to continue editing.
- 2. Add Menu Options: Provides expanded options, including the ability to copy record.
- 3. **Print/Export:** Export record to supported file formats.
- 4. **Help:** Interactive help tutorial.

<u>Gage Study Tabs</u>

- 5. **Details:** Manage general gage study details.
- 6. **Data Entry:** Manage and enter study data to be included in "Results" report, including number of appraisers, samples, trials, lower/upper specification and the study data itself. NOTE: *This tab is only used when entering gage study data directly in CTS.*
- 7. **Results:** View and print study results. NOTE: *This tab is only used when entering gage study data directly in CTS.*



Record Details

Study Name		-* 👝	Attachments		
Demo Gage Study (Example)		2		2	Filter by:
Location(s)		*		~	Theorem and the second se
Detroit		\sim	🗀 All Files	All Files	
Status		*			
Active		~			
Description				GageStudy	
This gage study is for demonstration purpose	S.			8)	
Date Performed		*			
1/20/2020		~			
Study Type	*				
GR&R Attribute Hypothesis	~				
- Gage Number					
EX-001					
Gage Name					
Example Gage					
Gage Type					
	Ý				
Part	tevision				
Part Record #1 (P165) /	1.1	~			
Characteristic					
		Ť			
Search Tags					
Notes					

- 1. Account security (permissions) is based on the Locations assigned to users. If you are assigned to a location, you have complete access (view, edit, delete). Users can be assigned to 1 or more locations.
- 2. Upload general attachments for reference or inclusion in Publish Project export.



Actions

A consolidated list allows you to see and navigate through the tasks assigned to you, plus all parts, projects and gage study records that you have access to on a single screen.

🔂 Hon	ne Parts Projects	Gage Studies	Actions			
						+ +
Tasks	that are assigned to you	:				
Id	Name	Priority	StartDate	EndDate	Complete	
667	Subtask 3	Low	1/1/0001	1/1/0001		10
Projec	cts that you are part of:					
ld	Name	Type	PartNumber	RevNumber	DueDate	
161	Seat Assembly	PPAP			1/31/2019	open
412	Temporary project	APQP			1/29/2019	open
413	Temporary project	APQP			1/28/2019	open
414	Temporary project	APQP			1/15/2019	open
417	Temporary project	APQP			1/3/2019	open
447	Temporary project	APQP			1/20/2019	open
Parts f	that you have created:	Reference	St	atus Stag	je Group	_
27	Oil pressure gauge	9874561		Pro	totype Group A	open
28	Square Wheel1	9874561		Pro	totype Group A	open

A user also may also create new Part, Project and Gage studies from the Actions section. Click directly on the record icon to create a new project, part or gage study.





Reports

Run report for Parts, Projects and Gage Studies. NOTE: You can also export/print records from most screens in CTS by clicking on the printer icon.

arts Pr	ojects	Gage Studies				/	
art Report .ocation		Sta	tus	View			
All	•	Al	-	List	•		Submit
reated Date (itart / End)			Number/Name		Revision status	
Start any date	•	End any date		All	•	All	•
уре			Product family		Search tags		
All	•		All	-			
88	M ¶ Pa	ge 1 🔻 of	2 🕨 🕅 🖽 PD	F 🔻			
			Part Su	nmary Report			
Par	t Number	Part Name	Loca	tion(s)	Status Stage	Program	Rev
PT-13		test part	Test Org, London, T	exas Acti	ve Production	Original	1
14/0		Fusionmonatorz	Tast Org. London D				_

Attachments

Documents can be attached throughout the system, including:

- Parts
- Projects
- Tasks
- Gage Study

Edit Options



	8
Filter by:	

- 1. Create (F7) File
- 2. Rename (F2) File
- 3. Move (F6) File



- 4. Сору
- 5. Delete (Del)
- 6. Refresh
- 7. Download
- 8. Search filter

All these options are enabled when a file is selected, but only required fields are enabled when none have been selected.

		1	
	+ 🔟 🛇	🗸 🖉 –	?
Attachments			
0 🗷 X 1	2 == ==	Filter by:	
🗀 All Files	All Files		
	MeetingRe		
	2 Drop file(s) here	3 Browse	4 Upload

- 1. To add files in attachments section, make sure you are in edit mode.
- 2. You can drag and drop files here to upload them.
- 3. Alternatively, you can click on browse and find the file in your PC
- 4. At the end, you can click upload button to save files in attachments and that should show up in viewer.