

Designing outside the box

Presented by: Nicholas Allen





Nicholas Allen

Training Instructor

MINT experience since Go Live: <1 year

Objective

- Using MINT in Maintenance
- Reports
 - Useful images
 - Using charts
 - Artificial Intelligence?
- Table Reports
 - Auditing
- Forms
 - Iterators
 - Gifs
- Testimonial

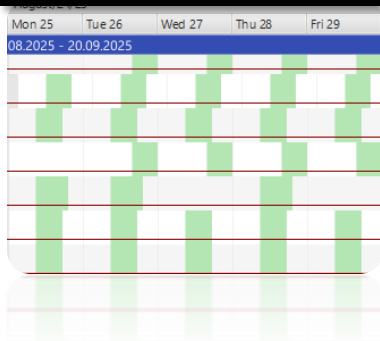




MINT in Maintenance

Use
Case

- Work Patterns
 - AAC Work Patterns
 - Work Pattern (PSM)
 - Office Staff 5/8: MON-FRI 9am-5:30pm
 - Maintenance Department
 - Day Shifts
 - Day 5/8: SUN-THU 7am-3:30pm
 - Day 5/8: TUE-SAT 7am-3:30pm
 - Day 5/8: MON-FRI 5am-1:30pm
 - Day 4/10: FRI-MON 6am-4:30pm
 - Day 4/10: WED-SAT 6:30am-4:30pm
 - Avionics Department
 - Evening Shifts



Attendance Form			
Class Title	Human Factors (Recurrent)	Class Date	Sep 2, 2025 @ 7:00 PM
Instructor	Morgan Tracy	Domicile	Locations
Instructor Position	Value Job Title	Training Hours	1 Hour

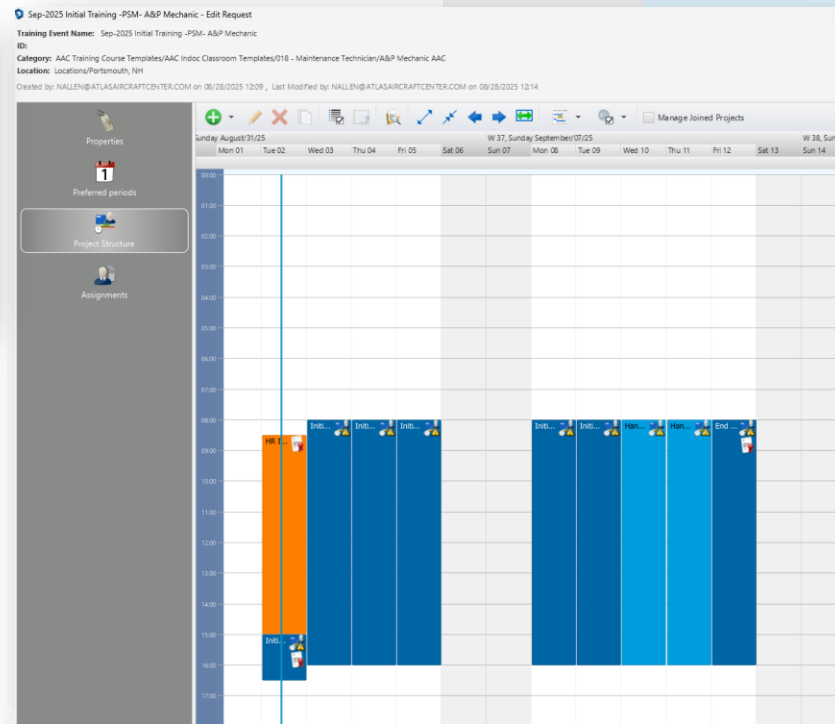
Employee Name	Attendance	
Doe, John	☒ Attended	☐ Absent
Perez, Henry	☒ Attended	☐ Absent
Müller, Eric	☒ Attended	☐ Absent

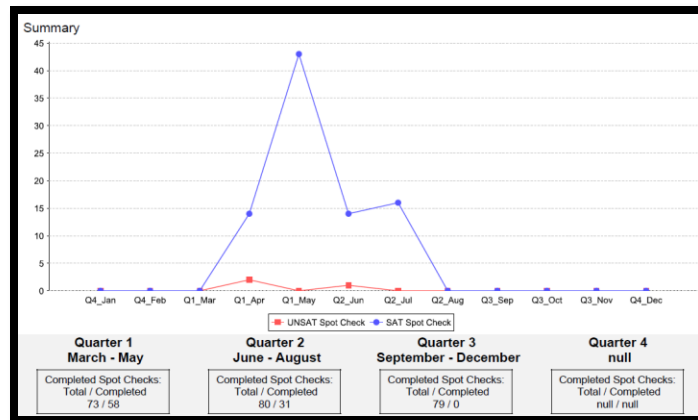
MAINTENANCE EMPLOYEE TRAINING RECORD

Company	
Type of Training	
☒ On The Job	☐ Product Factory
☐ Computer Based	☐ Other
Training Information	
Course Title	PC-12 Legacy Familiarization
Training Subject and Content	
Length of Training	
Date of Training	
Training Confirmation	
Instructor Name	
Employee Name	John Doe
Employee Job Title	Value Job Title

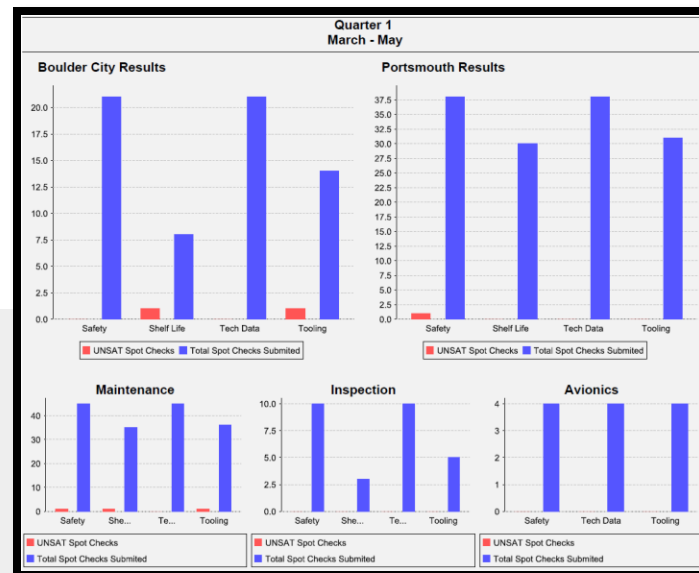
Email Form

TR-1
(8/24)

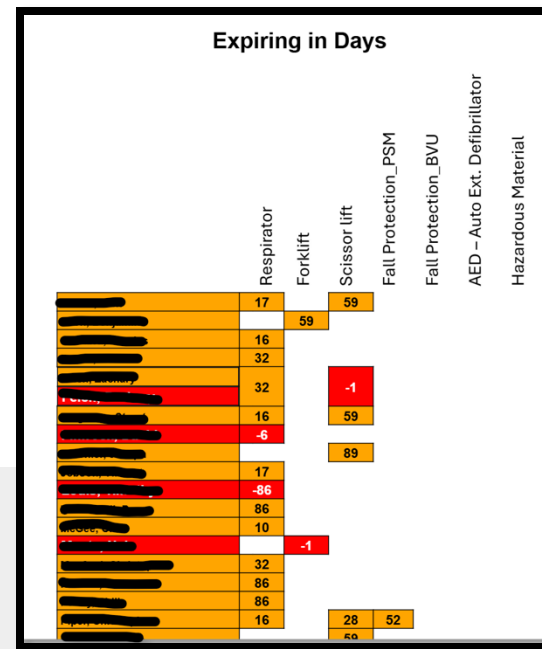




Aerial Lift Training		Expiration Date
	Days Left: 26	08/31/2025
	Days Left: 57	10/31/2025
	Days Left: 57	10/31/2025
	Days Left: 57	10/31/2025
	Days Left: 87	11/30/2025
	Days Left: 87	11/30/2025
		12/31/2025
		12/31/2025



Master Training Roster 2021			
Yearly totals Hired Employees: 9			
Start date	Employee Name	Department	Domicile
12/27/2021		Maint Tech	PSM
11/1/2021		Maint Control	PSM
10/4/2021		Avionics	PSM
09/7/2021		Parts	PSM
08/30/2021		Maintenance Technicians	BVU
06/21/2021		Avionics	PSM
06/1/2021		Line Services	PSM
04/27/2021		Facilities	PSM
02/8/2021		Maint Tech	PSM
Terminated Employees: 1			
Terminated in 2021			
Term date	Employee Name	Department	Domicile
07/9/2021		Maint Tech	PSM

Build
Reports

Atlas AIRCRAFT CENTER Factory Schools									
Location	Pos.	Name, FirstName	Start Date	P&WC	PC-12	Williams	PC-24	Composite	Painting
PSM	MX			02/7/2020	06/22/2020	02/2/2023	07/25/2025	10/29/2021	10/25/2024
PSM	MX							06/29/2023	04/28/2022
PSM	MXC								
PSM	MX			03/22/2019	12/14/2017	10/10/2019	05/15/2020	04/22/2019	
PSM	MX			08/12/2014	05/7/2015	12/28/2020			
PSM	MXC			10/23/2001	10/3/2002	12/30/2020	01/25/2019	05/17/2013	06/29/2023
PSM	MX			05/16/2025					11/8/2018
PSM	MXC								

Indoc Syllabus
A&P Mechanic AAC

Direct Phone:

PlaneSense Atlas
AIRCRAFT CENTER

Training Instructors:

Nicholas Allen - AAC Training Instructor

- AAC Training Instructor

- Aircraft Maintenance Training Manager

Email:

nallen@atlasaircraftcenter.com

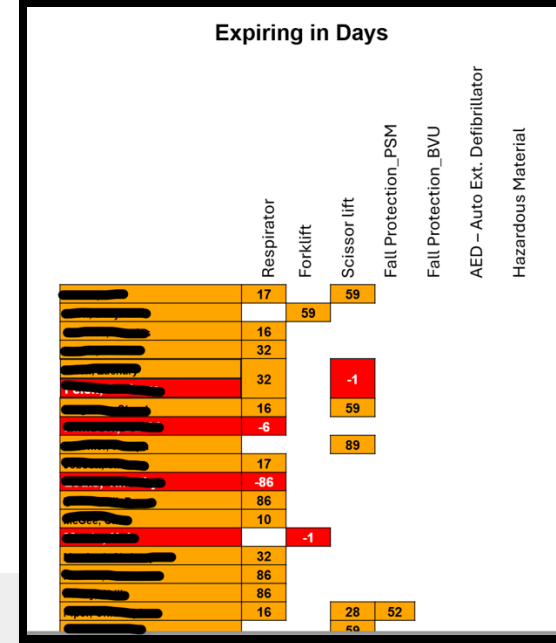
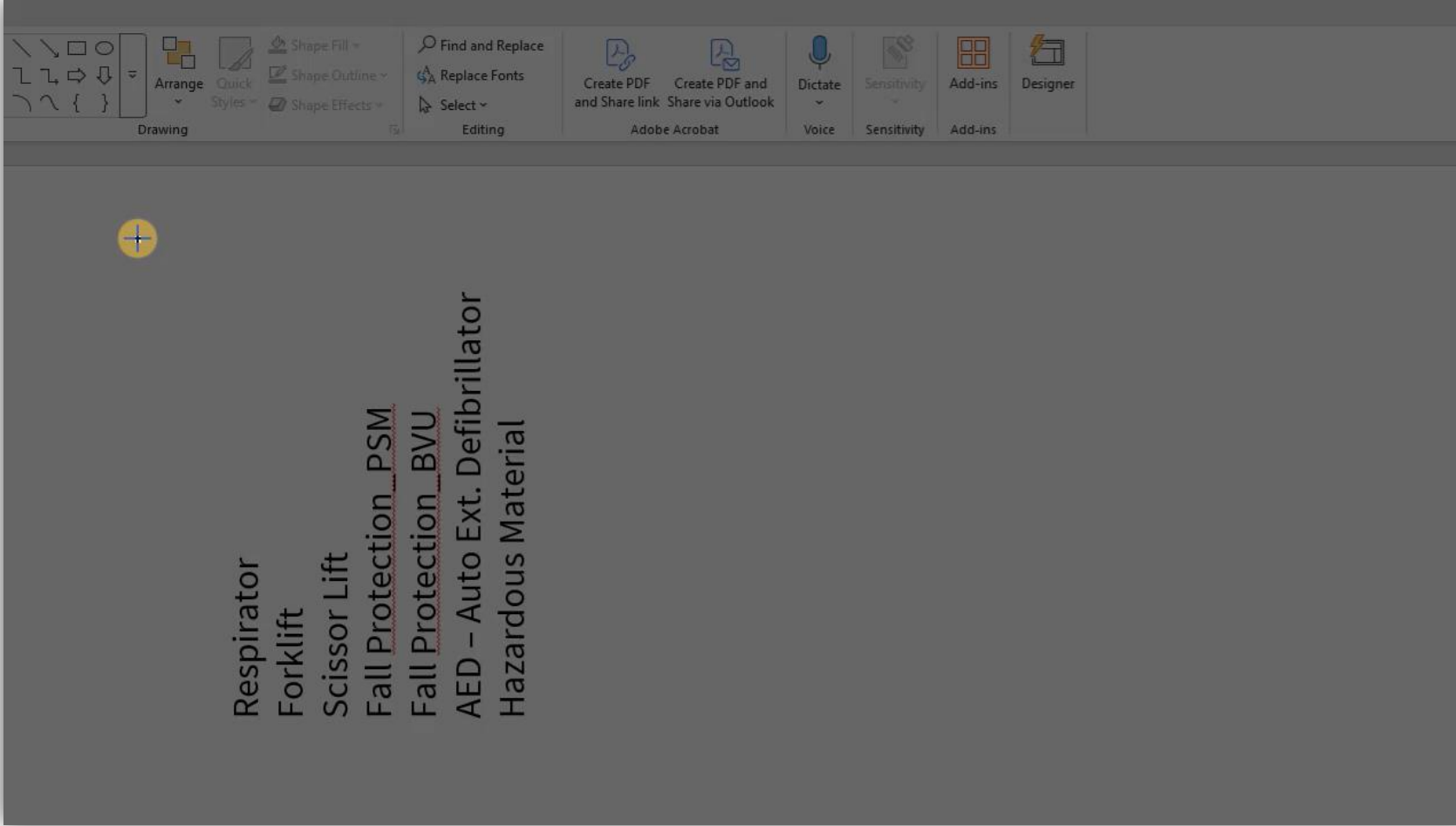
Scope:

This two-week training is designed to provide new employees with a comprehensive understanding of our company's policies, safety culture, regulatory requirements, and operational expectations. Through a combination of presentations, hands-on activities, and assessments, participants will be equipped to begin their roles with confidence and competence. Please note that any provided quiz requires a minimum 80% score to pass.

Daily Schedule:

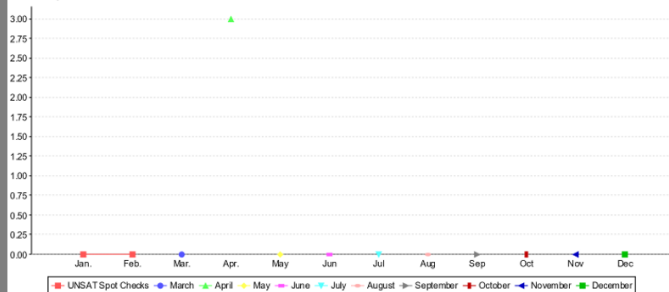
Training will run from **0800 to 1600**, Monday through Friday. Each day will include **10-minute breaks** and a **30-minute lunch**. Please note that this schedule serves as a general guideline—actual times may vary depending on training needs and circumstances.

Training Topic	Time in Hours
Badge class	1
Training is completed by PEASE personnel.	
Hazard Communication Training	1
Overview of the OSHA Hazard Communication Plan describing how PlaneSense/Atlas Aircraft Center labels chemicals and the breakdown of SDS sheets. Passed 2 exams with an 80% or better.	
Anti-Drug & Alcohol Training	1
Online DOT training provided by Alere.	
Aerial Lift Training (Initial)	2
Review manufacturer supplied video based training. Complete Participant guide and pass associated exam with an 80% or	



Creating a line graph based on time

Incorrect due to "Series Expression"



Properties

Search

Basic

Name: March

Chart

Series Expression: March

Category: Mar.

Value: \$V{Mar Data}

"Series Expression" should have the same name for every Series created.

Properties

Search

Basic

Name: February

Chart

Series Expression: UNSAT Spot Checks

Category: Feb.

Value: \$V{Feb Data}

Build Reports

Variable setup

- Jan Data
- Feb Data
- Mar Data
- Apr Data
- May Data
- Jun Data
- Jul Data
- Aug Data
- Sep Data
- Oct Data
- Nov Data
- Dec Data

Properties

Search

Basic

Name: Jan Data

Data

Calculation: Sum

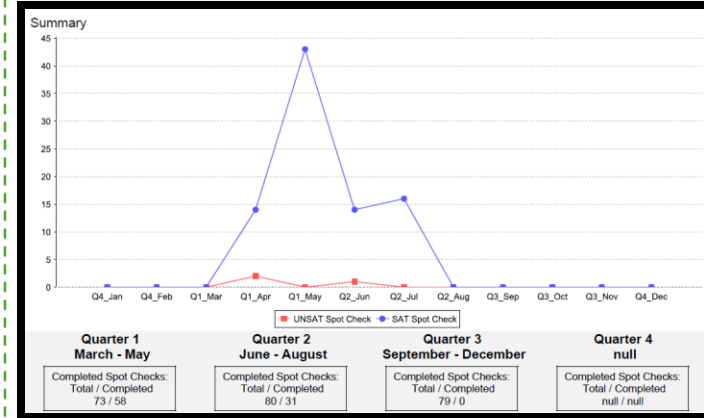
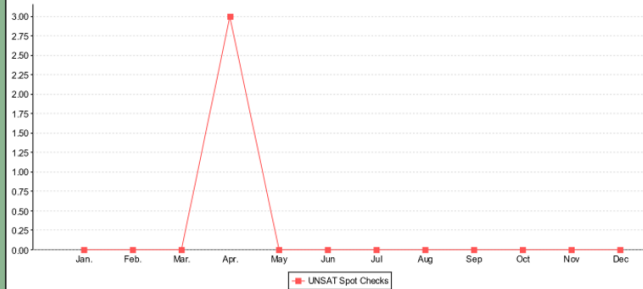
Initial-Value E...:

Expression: $= (\$F\{Assigned Date\}.getMonth() == 0) ? (\$F\{Grade\}.equals("UNSAT") ? 1.0 : 0.0) : 0.0$

Apply Calcula...: For each row

Reset Time: Start of report

Value Type: FLOAT



- Nov Data
- Dec Data
- Jan Data (1)
- Feb Data (1)
- Mar Data (1)
- Apr Data (1)
- May Data (1)
- Jun Data (1)
- Jul Data (1)
- Aug Data (1)
- Sep Data (1)
- Oct Data (1)
- Nov Data (1)
- Dec Data (1)

- January
- December
- SERIES1
- SERIES2
- SERIES3
- SERIES4
- SERIES5
- SERIES6
- SERIES7
- SERIES8
- SERIES9
- SERIES10
- SERIES11
- SERIES12

Properties

Search

Basic

Name: SERIES1

Chart

Series Expression: SAT Spot Checks

Category: Jan

Value: \$V{Jan Data (1)}

Properties

Search

Basic

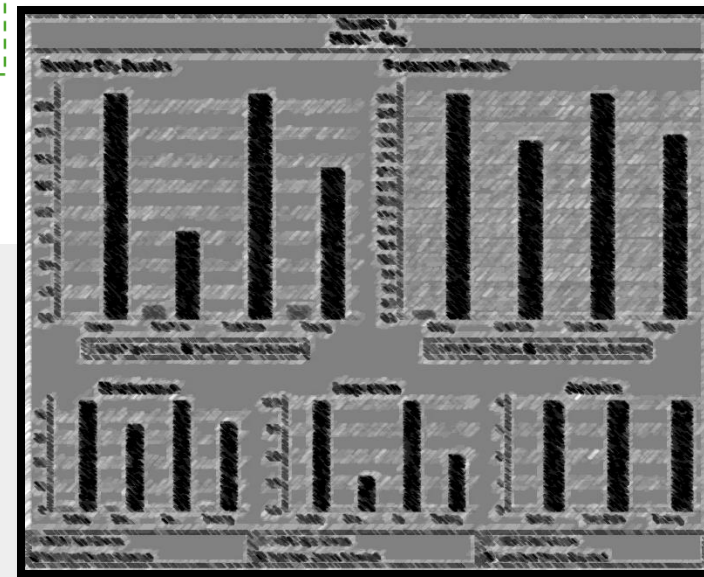
Name: January

Chart

Series Expression: UNSAT Spot Checks

Category: Jan

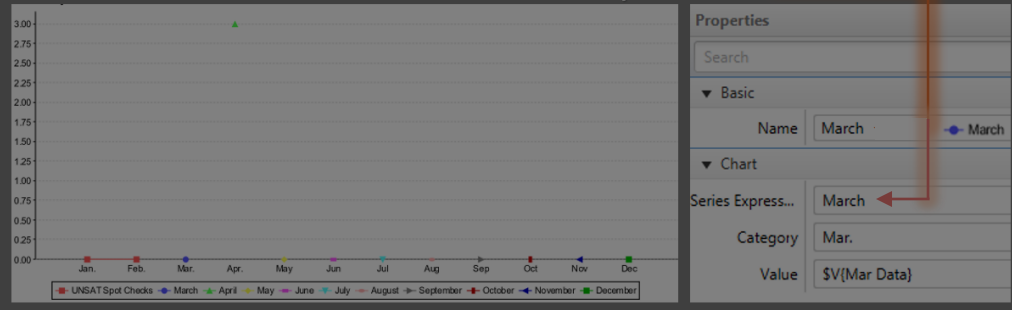
Value: \$V{Jan Data}



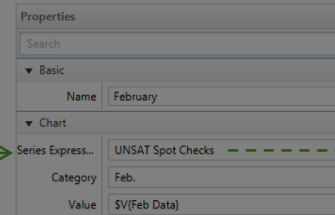
Creating a line graph based on time



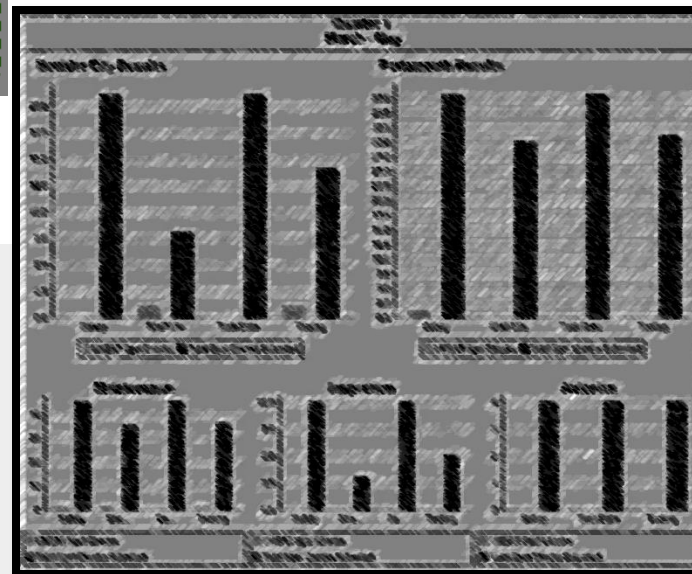
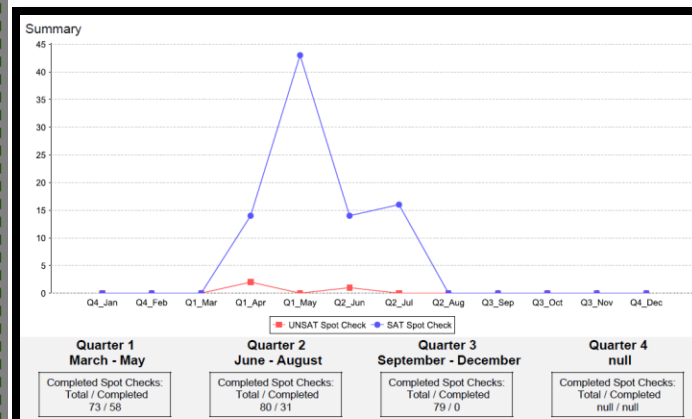
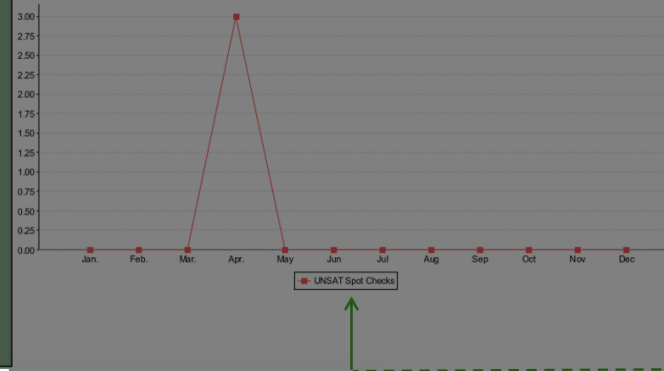
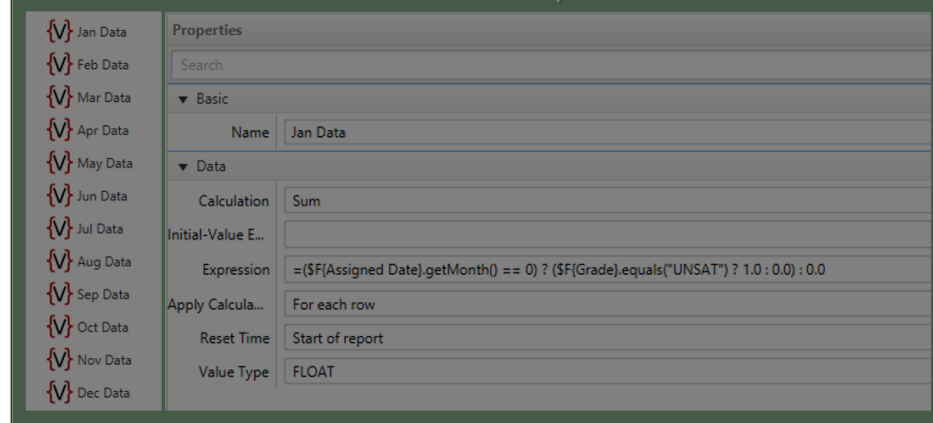
Incorrect due to "Series Expression"



"Series Expression" should have the same name for every Series created.



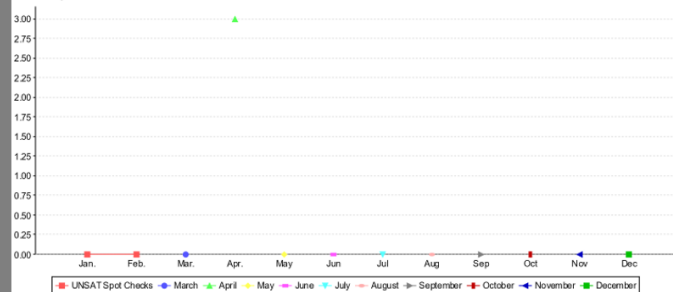
Variable setup





Creating a line graph based on time

Incorrect due to "Series Expression"



Properties

Search

Basic

Name: March

Chart

Series Expression: March

Category: Mar.

Value: \$V{Mar Data}

"Series Expression" should have the same name for every Series created.

Properties

Search

Basic

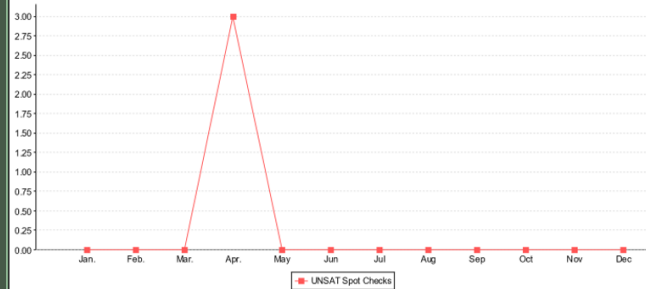
Name: February

Chart

Series Expression: UNSAT Spot Checks

Category: Feb.

Value: \$V{Feb Data}



Variable setup

Properties

Search

Basic

Name: Jan Data

Data

Calculation: Sum

Initial-Value E...:

Expression: $=(\$F\{Assigned Date\}.getMonth() == 0) ? (\$F\{Grade\}.equals("UNSAT") ? 1.0 : 0.0) : 0.0$

Apply Calcula...: For each row

Reset Time: Start of report

Value Type: FLOAT

Properties

Search

Basic

Name: SERIES1

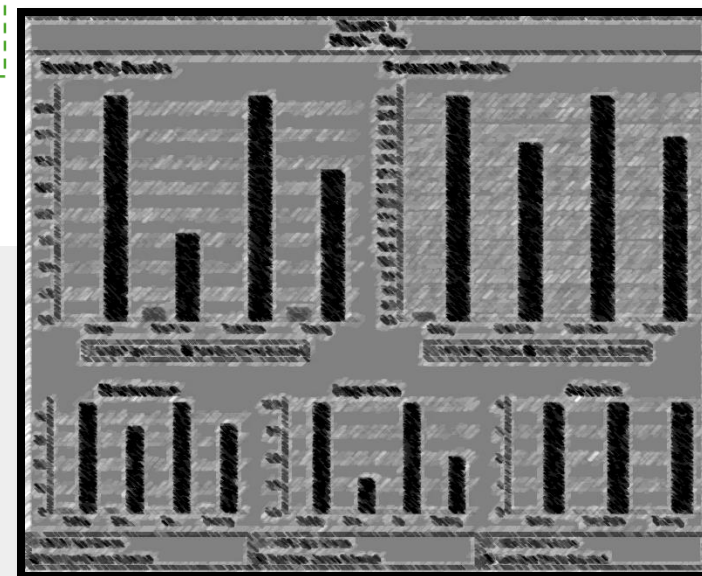
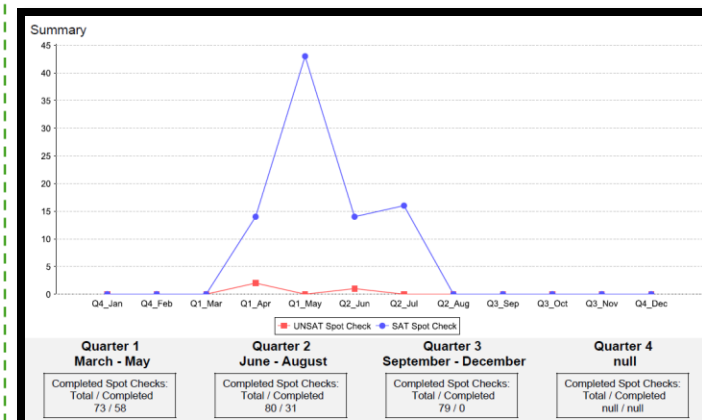
Chart

Series Expression: SAT Spot Checks

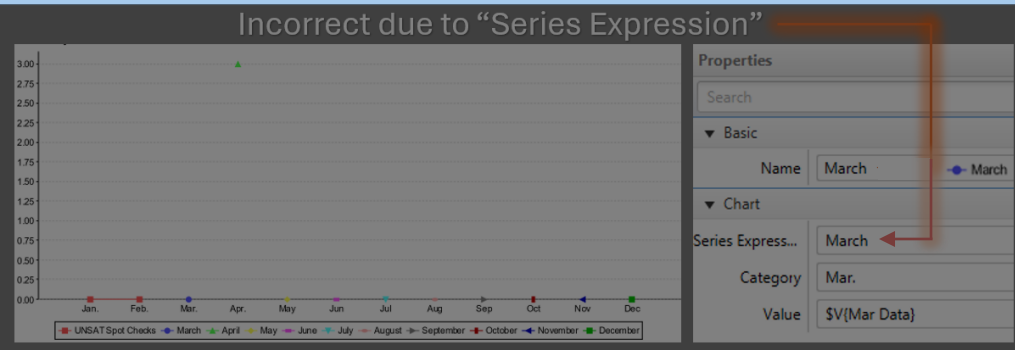
Category: Jan

Value: \$V{Jan Data (1)}

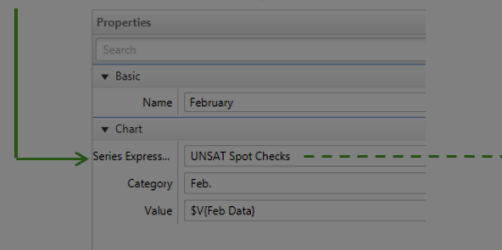
Build
Reports



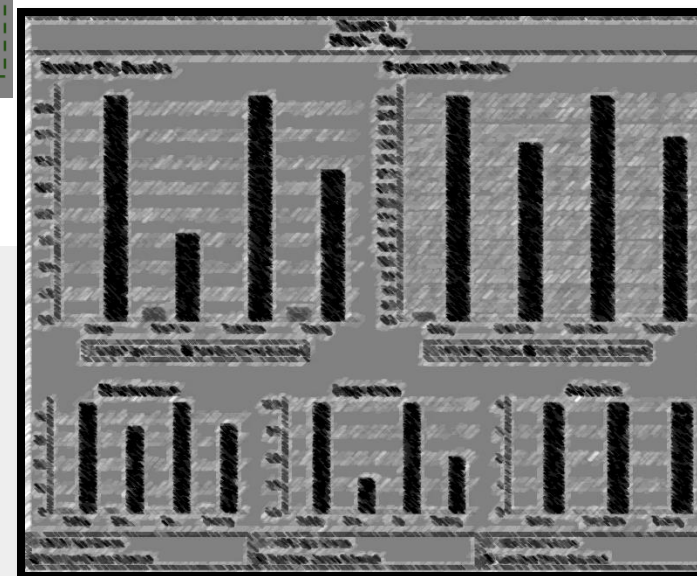
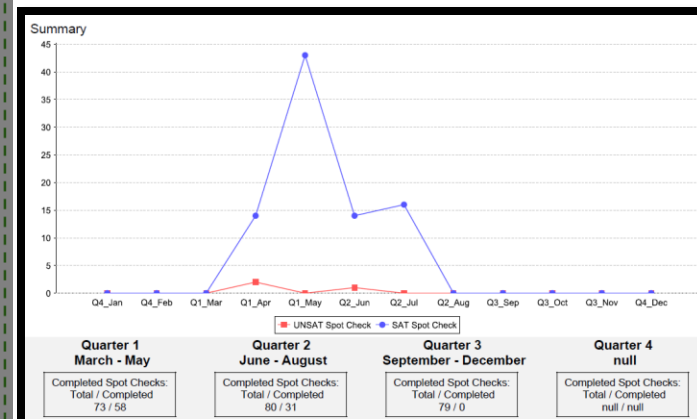
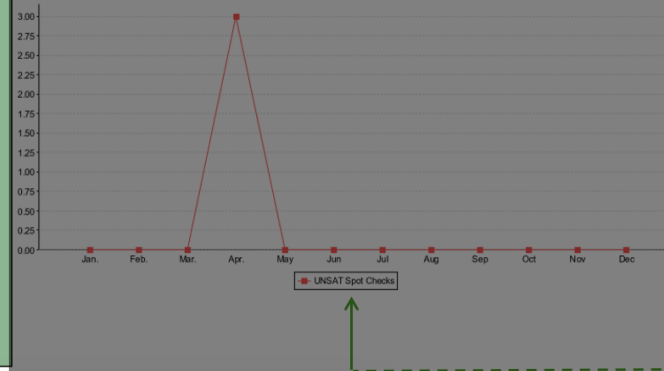
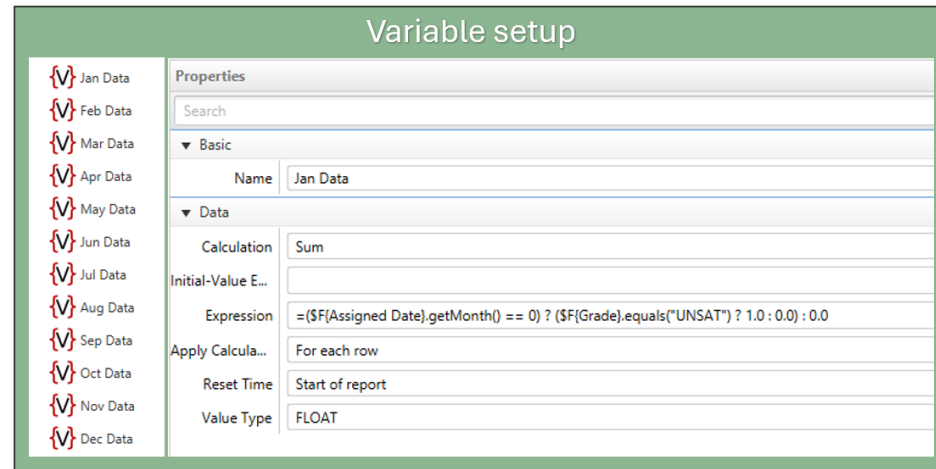
Creating a line graph based on time



"Series Expression" should have the same name for every Series created.

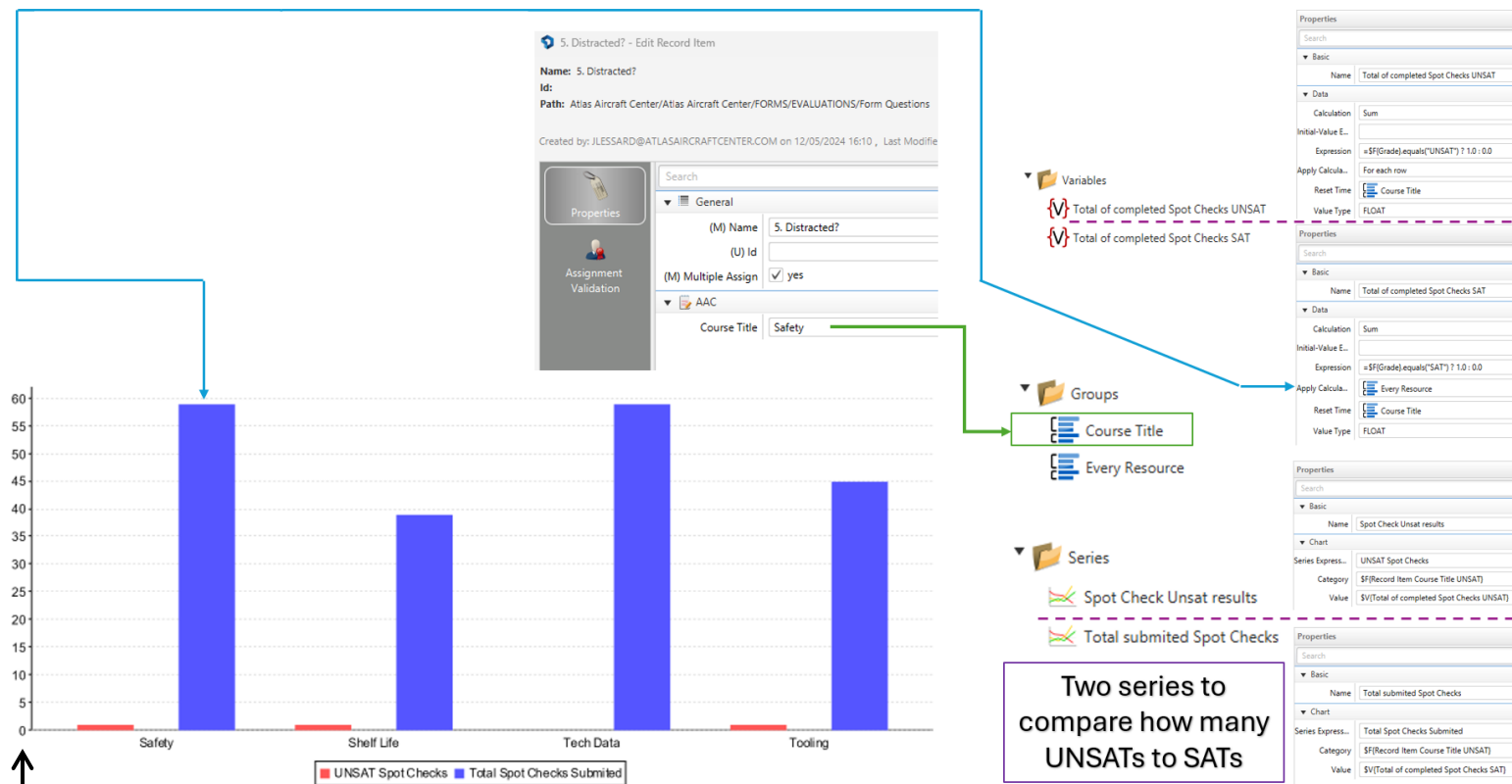


Variable setup



Creating a Bar graph based Categories

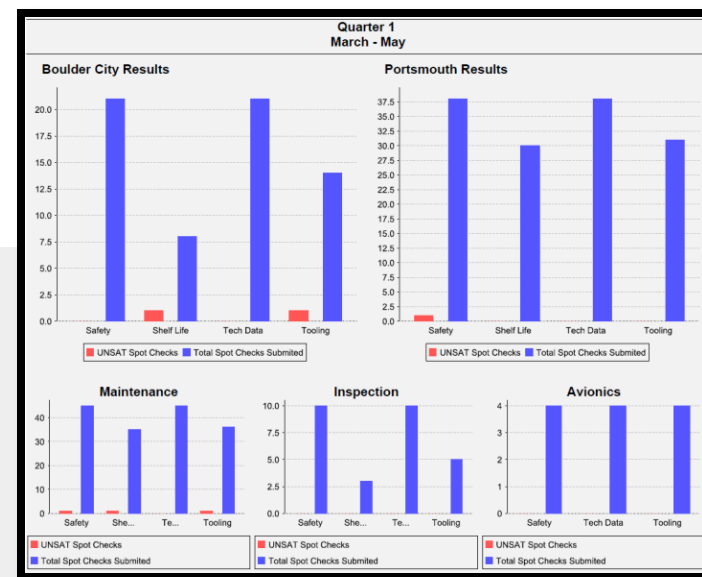
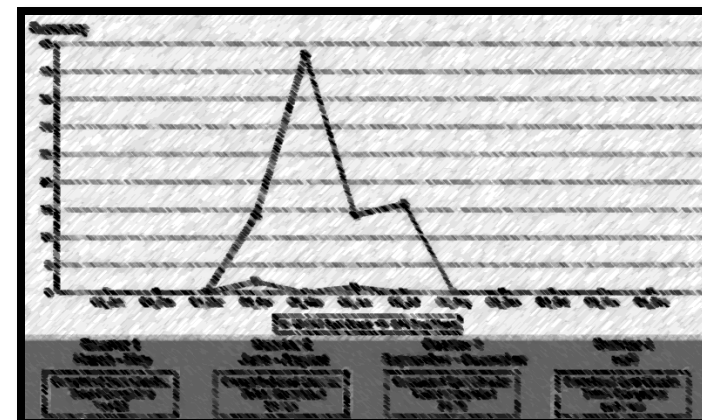
Build Reports



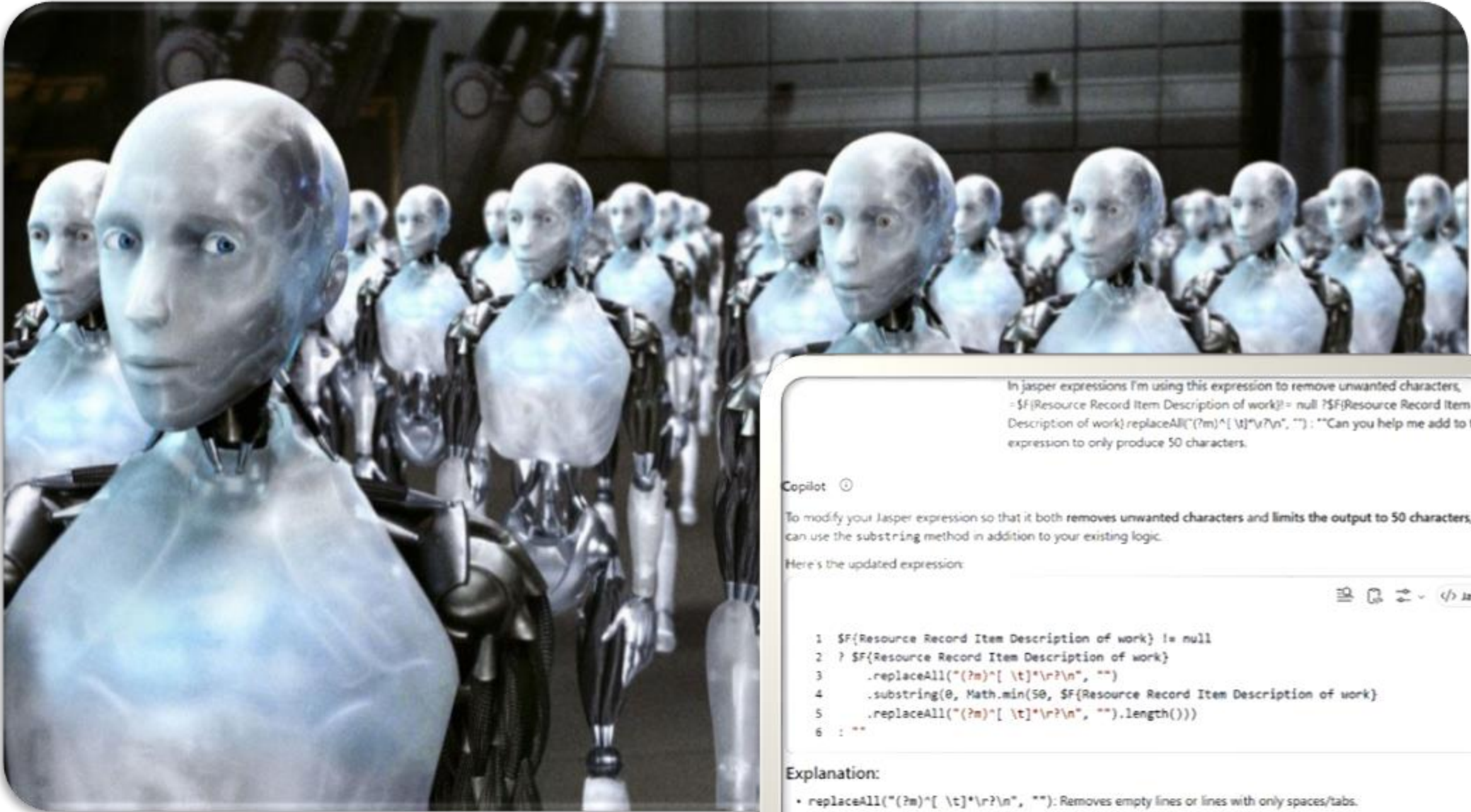
Two series to compare how many UNSATs to SATs

You can't adjust the tick marks.

Colors are predetermined (not customizable).



Jasper Expression “expert”



In Jasper expressions I'm using this expression to remove unwanted characters, -
`#{Resource Record Item Description of work} != null ?#{Resource Record Item Description of work}replaceAll("(?m)^[ \t]*\r?\n", "") : ""`Can you help me add to this expression to only produce 50 characters.

Copilot ⓘ

To modify your Jasper expression so that it both removes unwanted characters and limits the output to 50 characters, you can use the substring method in addition to your existing logic.

Here's the updated expression:

```
1  #{Resource Record Item Description of work} != null
2  ? #{Resource Record Item Description of work}
3    .replaceAll("(?m)^[ \t]*\r?\n", "")
4    .substring(0, Math.min(50, #{Resource Record Item Description of work}
5    .replaceAll("(?m)^[ \t]*\r?\n", "").length()))
6  : ""
```

Explanation:

- `replaceAll("(?m)^[ \t]*\r?\n", "")`: Removes empty lines or lines with only spaces/tabs.
- `substring(0, Math.min(50, ...))`: Ensures that you only take up to 50 characters, avoiding `StringIndexOutOfBoundsException` if the string is shorter than 50 characters.



Jasper Expression “expert”





Table Reports – Quick Audits

Using
Table
Reports

ASSIGNED NOTHING IN MINT (Finished) X

Organisation	First name	Job Title	Location	Name	AAC Trainings
					NONE of
PlaneSense / Human Resources / Maintenance					
Maintenance		A&P Mechanic - AAC	Portsmouth, NH		X
Maintenance			Portsmouth, NH	mint-aac-traininginstructor	X
Maintenance		A&P Mechanic - AAC	Boulder City, NV		X
Maintenance			Portsmouth, NH	PSI Crewroom - AAC	X
Maintenance		Avionics Technician	Portsmouth, NH		X
PlaneSense / Human Resources / Maintenance Control					
PlaneSense / Human Resources / Line Service					
PlaneSense / Human Resources / Facilities					
Facilities		Receptionist	Portsmouth, NH		X
PlaneSense / Human Resources / Executive					

Table Report: 'ASSIGNED NOTHING IN MINT'

ASSIGNED NOTHING IN MINT

Record Items: 'AAC Trainings'

everyone assigned this record item

Record for User Group assignments

Atlas Aircraft Center

Positions

Qualifications

FORMS

AAC Trainings

Human Resource Training

Initial Required Indoc Training

Software Training (Recurrent on revision)

Recurrency Courses (Initial)

Aircraft Specific Maintenance Training Records

PC-12

PC-12 Run-up

PC-12 Engine Run-up

PC-12 Engine Run-up approval

Training Forms

PC-24

PC-24 Run-up

PC-24 Engine Run-up

Organization Location Record Items Categories and Events

Roster Letter Authorization (Finished) X

Name	First name	Business Unit	Repair Station Managment (A)	Oversee Maintenance Functions (B)	Sign-off Privileges (EF)
		018 - Maint Tech			X
		018 - Maint Tech			X
		015 - Maint Admin	X		
		018 - Maint Tech		X	X
		017 - Inspection			X
		018 - Maint Tech			X
		017 - Inspection			X

Forms Iterator

Building
Forms

Iterator 1 = Per Resource
Iterator 2 = Per Record Item

Maintenance Employee Training Form

Current Record Item Name

Curriculum		INITIAL_RECURRENT
Initial / Recurrent		INITIAL_RECURRENT2
Type of Training		TYPE_OF_TRAINING
☐ On the Job (OJT)	☐ Product Factory	TYPE_OF_TRAINING2
☐ Computer Based	☐ Other	COURSE_TITLE
Course Title:		TRAINING_CONTENT_TITLE
Training Subject and Content		
Training Hours		
Date of Training		DATE_TIME
Instructor Name		TAB13
Employee Name	SIGNOFF_FOR.First name	SIGNOFF_FOR.Name
		INSTRUCTOR_ATOR2

ITERATOR1

(M) Selectable on form	☒ yes
(M) Appear on form	☐ no
(M,U) Deferrable on form	☐ no
(M) De-Identify	☐ no

Select Record Items

Forms Iterator

Building
Forms

 PlaneSense 

       Nicholas Allen 

 Products |  Projects |  Resources |  Adhoc Forms |  Assigned Forms |  Reports

Back

SignOff

Save

Reset

Store offline

Select Record Items

Back

SignOff

Save

Reset

Select Record Items 

Please select the record items to be shown on the form in the list below.

☐	Record Item	Event Name
☒	Aerial Lift Qualified Trainer (Initial)	n/a - included in form
☐	Aerial Lift Training (Initial)	n/a - included in form
☐	^Aerial Lift Training	n/a - included in form
☐	Forklift Qualified Trainer (Initial)	n/a - included in form
☐	Forklift Training (Initial)	n/a - included in form
☐	^Forklift Training	n/a - included in form
☒	PSM Fall Protection Competent Person (Initial)	n/a - included in form

Forms Iterator

Building Forms

Maintenance Employee Training Form			
Curriculum			
INITIAL TRAINING			
Type of Training			
☒ On the Job (OJT)		☐ Product Factory	
☒ Computer Based		☐ Other	
Course Title:	Aerial Lift (Initial) ▼		
Training Subject and Content			
Review manufacturer supplied video based training. Complete Participant guide and pass standardized exam with an 80% or better. Demonstrate understanding of proper operation of aerial lift under the supervision of experienced operator/trainer.			
☒ On the Job (OJT) ☐ Computer Based Course Title: A Fall Arrest System instruction harn operation of personnel system is required the system Requirement for Proper use of tr			
Training Hours	2	Date of Training	09/
Instructor Name			
Employee Name	Nicholas Allen		

Maintenance Employee Training Form		
Curriculum		
Initial / Recurrent		
Type of Training		
☒ On the Job (OJT)	☐ Product Factory	
☐ Computer Based	☐ Other	
Course Title:	PSM - Fall Protection Plan (initial) ▼	
Training Subject and Content		
A Fall Arrest System User has received the following training which consisted of formal instruction harness assignment and instruction in the areas listed: - Proper use & operation of personal fall arrest systems and equipment, including when use of the system is required as well as circumstances when it is inappropriate or dangerous to use the system. - Fall Hazards and Minimizing risks. - Re Requirement for reporting accidents / incidents that cause injury to : Mai Proper use of trauma relief straps.		
☐ On the Job (OJT) ☐ Computer Based Course Title: Storm Covered the storm wate		
Training Hours	1	Date of Training
Instructor Name		
Employee Name	Nicholas Allen	

[illegible]



Forms Gifs

Building
Forms

Anonymous Employee Evaluation Form

Event: Request X
7:00 PM - 11:00 PM

Instructor:

Instructor Evaluation

1. Was the class missing any information that would be important?

2. Did the instructor answer any questions you had?

☐ Yes
 ☐ No

Classroom Evaluation

3. Was the presentation organized?

☐ Yes
 ☐ No

4. Overall, this course stimulated my interest in this subject.

Strongly Disagree

Disagree

Neutral

Agree

Strongly Agree

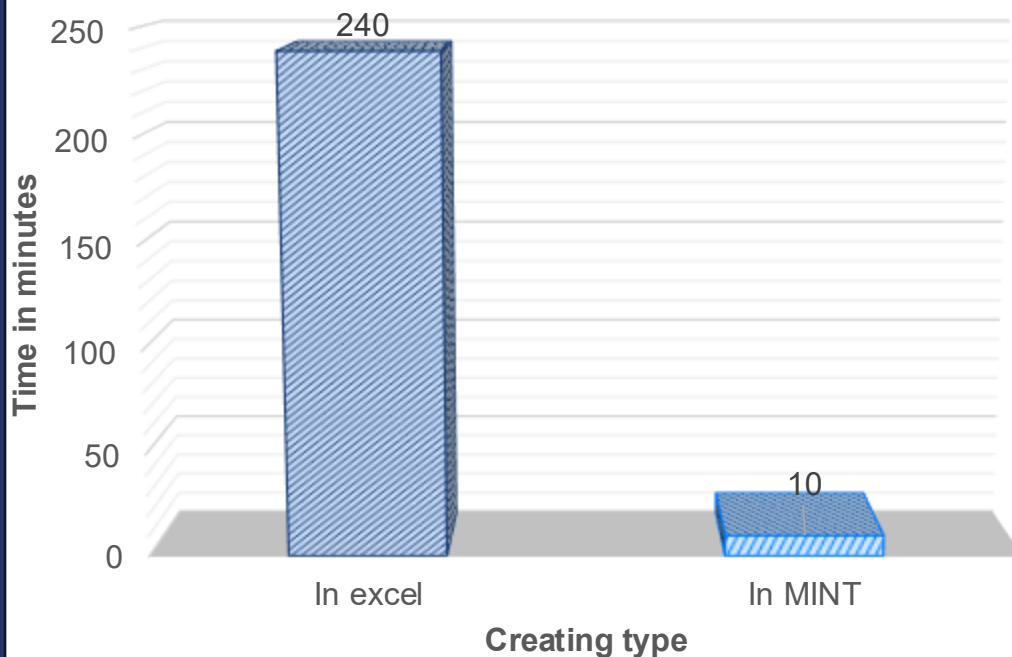
5. Please fill out any further feedback or suggestions you may have.



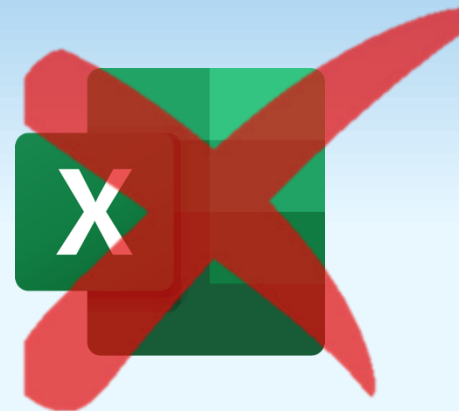
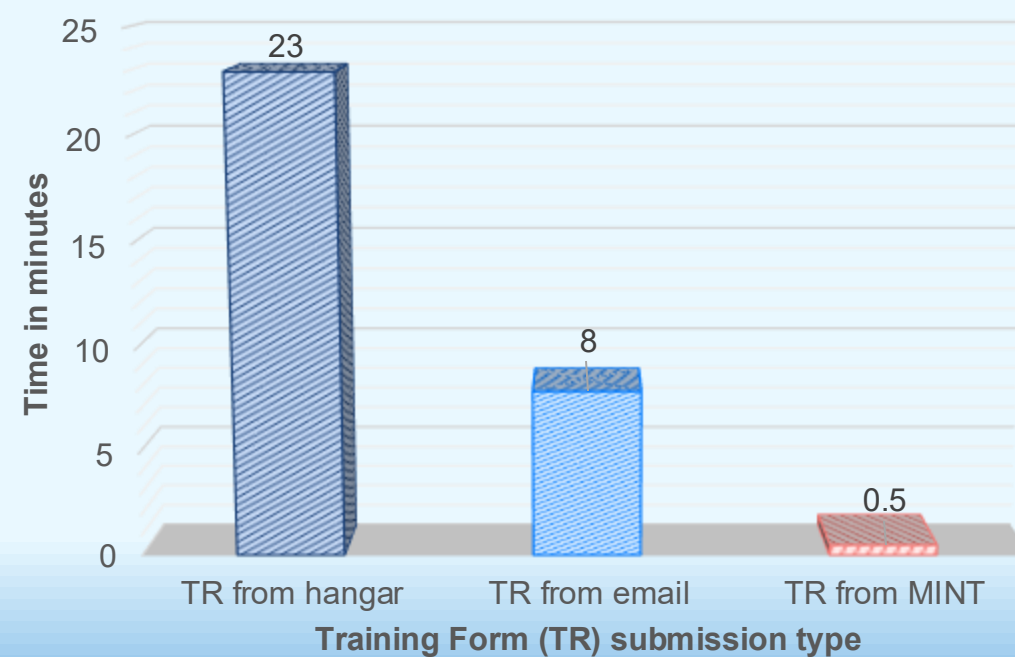
Testimonial

“MINT has transformed our training department, making it more efficient, more accurate, and giving us more time to focus on our employees.”

CREATING A REPORT



TR-1 SUBMISSION TIMEFRAME



Questions?



Thanks • Danke • Gracias