Vancouver Airport Authority

Airfield Maintenance Training and Onboarding Program

12 Lessons Learned

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Oh my, who's trained on what?







Lesson #1:

A training program needs to be resourced





Training program needs to be resourced









Training needs to be documented

or it never really happened...





Training needs to be documented









Establish the curriculum





Establish the curriculum





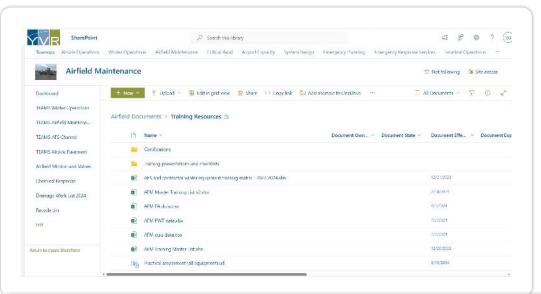


Figure out a way to track everything

• LMS

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- SharePoint
- Dashboard
- MS Forms



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I know what I want to train them on...

Next...

- Curriculum outlined
- Now for the most time-consuming part...





Build content

- Training
 modules/presentations
- Quizzes
- Videos
- Checklists
- Assessments
- Quick guides





Training material development

• Count on <u>50 hours</u> prep for every 1 hour of training delivered

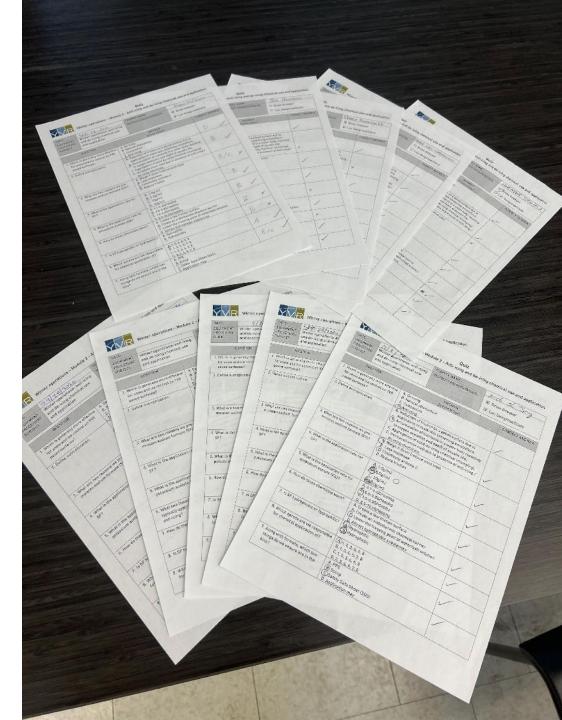


- So we know training has to be documented.
- Quizzes to confirm they've learned the theory.

• Leads to the next lesson learned...









Go electronic!

• Avoid paper at all costs!

Loader 165 - Quiz (14 Points)

What is the safe way to enter/exit the vehicle? * (1 Point)

Facing in. Two points of contact.

Facing out. Three points of contact.

Facing out. Two points of contact.

 \bigcirc Facing in. Three points of contact. \checkmark

2

1

Before connecting/disconnecting 4-in-1 bucket, why do we repeatedly move the joysticks and cycle through the control buttons? * (1 Point)

To ensure the attachment is properly connected.

To warm up the engine.

○ To relieve pressure in the hydraulic lines. ✓

To ensure the controls are functioning.





They've passed a quiz, but can they actually operate this vehicle?

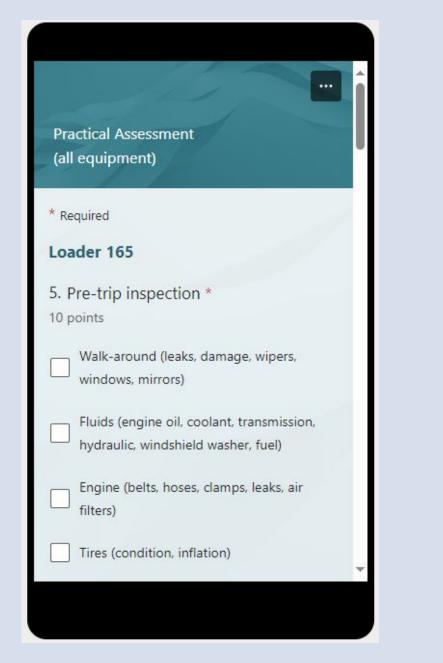






Use <u>practical</u> <u>assessments</u> to confirm competence in what you've trained them on





What to do with new hires?

Onboarding

- 4-6 weeks
- Benefits:
 - Up to speed quickly
 - Standardized, basics covered
 - Groups optimally 4-5 (max. 7)







Onboarding can be valuable, but there must be a metric of training success





Onboarding final exam and assessment

- Lock blocks and barriers
- Pavement repair theory
- Pavement repair tools
- Pre-trip inspections and vehicle status white board
- Pump stations
- · Radio use
- · Rigging
- Spill response
- Staff 32
- Staff 89
- Sweeper bin
- Tailboard conferences, SMS, FLHA
- Tire safety
- Trailers, hitches and tie-downs





Metrics of onboarding success

Final exam and practical assessment

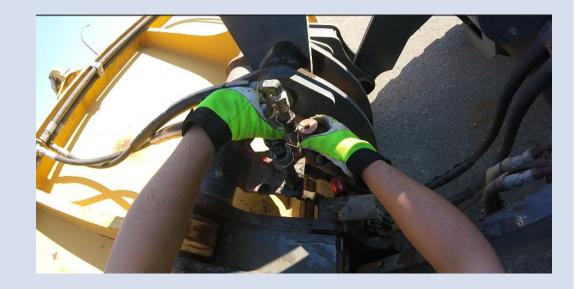
- Exam: 170 questions, 45 minutes
- Practical assessment: 4-6 hours
- Ensures they know what you covered
- Can actually do the work
- Useful data for management (probationary and performance review)







I'm doing this full-time now...







Leverage technology wherever possible

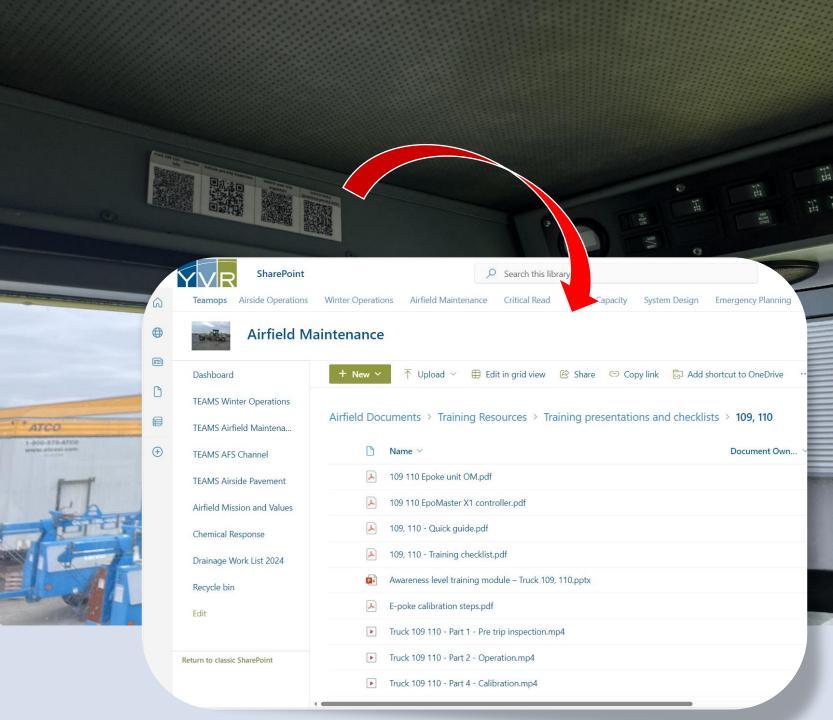




Leverage technology

- "On-demand learning"
- Micro learning
- 2-5 minute videos
- Increases searchability

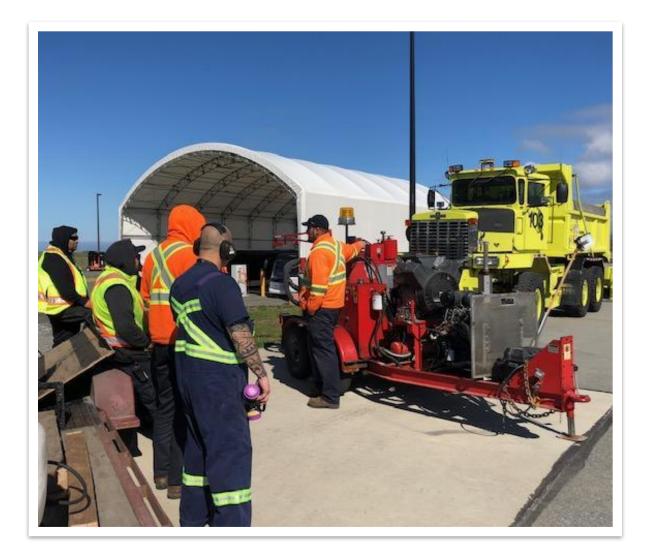




How to schedule training delivery?

Coordinating training

- Takes time (especially external trainers)
- Entire curriculum spread out



Develop a training calendar





Training calendar

- Month-by-month
- Everyone knows the plan

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January			
Theory	Practical assessment (PA)	Monthly refresher (PWT)	
AMS wash bay	5	Chain saw	
Escorting procedures	-	Cut off saw	
Spill response*	-	Walk-behind saw	
Staff 32	57		
Staff 89			

February			
Theory	Practical assessment (PA)	Monthly refresher (PWT)	
Rigging and hoisting*	-	Cobus	
Fence repair and signage	<u>-</u>	Trailer 5 connection to 103	
Trailers, hitches and tie-downs	-	Ratchet straps, chain tensioners	
Sweeper 97	Sweeper 97		
Sweeper 124 125 128	Sweeper 124 125 128		

March		
Theory	Practical assessment (PA)	Monthly refresher (PWT)
Field deficiencies	2.4 - 2.5 -	Chain saw
Grass cut equipment - hand operated	-	Cut off saw
Grass cutting theory		Walk-behind saw
ILS, runway access/maintenance		Attach/detach 4-in-1 165
Loader 165	Loader 165	

April		
Theory	Practical assessment (PA)	Monthly refresher (PWT)
<u>Trucks 111 112 – summer package</u>	Truck 111 112 – summer package	Cobus
Mowers 161, 162		
Tractors 152, 154		



Challenge of a growing department

- Went from 8 AOS, 1 LH and 2 AFS
- To 38 AOS, 6 LH and 7 AFS
- I didn't have the time to train everyone anymore!





You can't do it alone





You can't do it alone







Why are we paying you to do this again?





Think of training as a business function

Don't provide training just for the sake of providing training





Training as a business function

- Need to demonstrate business value
- Metrics like final exams and practical assessments
- Define the business
 objective first
- Then build the training objective to deliver



Summary – 12 Lessons Learned

#	Lesson	Takeaway
1	A training program needs to be resourced	Full-time position for a department larger than 10 people
2	Training needs to be documented	If it wasn't documented, it didn't happen
3	Establish a curriculum	Make a list of all tasks/equipment needed to do the job
4	Figure out a way to track everything	LMSthe more automated the better
5	Build content	Video is valuable
6	Go electronic	Avoid paper at all costs





Summary – 12 Lessons Learned

#	Lesson	Takeaway
7	Use practical assessments to confirm competence	Quality assurance, supervisor sign-off
8	Onboarding is useful but must ensure a metric of training success	Final exam, final competence assessment
9	Leverage technology wherever you can	QR codes, mobile phones, Sharepoint, video, Al
10	Develop a month-by-month training calendar	Spreads out curriculum, helps with planning
11	You can't do it alone	Training and assessment via other supervisors, lead hands
12	Think of training as a business function	Clear objectives, return on investment

