

Improving Efficiency

An Interactive Exercise



The Problem(s)

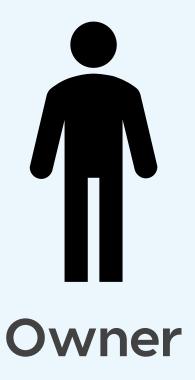
- 1. We must compete on price (significant).
- 2. Prices are competitive (too cheap!)
- 3. Good staff is hard-to-find.

How can we make a healthy profit?



















Scenario:

Your crew gets to site, realizes they forgot fuel. The foreman returns to the shop to get some.

Question:

What did that mistake cost?





Foreman wages

Time lost returning to shop



2h

\$40



Crew wages

Slowed productivity unsupervised



2h

\$35



Fuel

Fuel costs returning to shop



2h

\$10



Lost opportunity!

Lost revenue potential



4h

\$240

\$325



The Game



The Goal

The winning crew will generate the most revenue per minute

(you can finish early)



The Rules

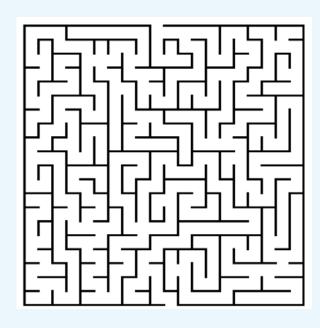
- Complete a maze to drive to site
- Complete 'site' as per specs
 - Basically, a coloring book page
- Only work on 1 site at a time
- Once a site is finished, hand it to your customer
- Repeat for 3 sites



The "Trailer"

The Drive(s)





The 'Specs'

Crew Instructions

Foreman Name:

PROGRAMMYCONYMINE

- 1. Your crew has been assigned a route today consisting of 3 si
- 2. Play Rock/Paper/Scissors to pick your crew's foreman
- 2. Start from the shop' and grab your trailer
- a. Your penal case is your trailer it has your tooks + equipment
- 4. Next, leave the shop use with Maze I to 'drive' to the first site
- 5. The site specs for each site are listed in the section below
- 8. To move to the next site, you must grab the next maze and drive there

1

- You may only work on 1 site at a time!
- But you can all work on the same paper at once
- No one can go to the next site/map until you're complete the one you're working on
- You may **not** return to site once you've moved on to another site.

Job Specifications

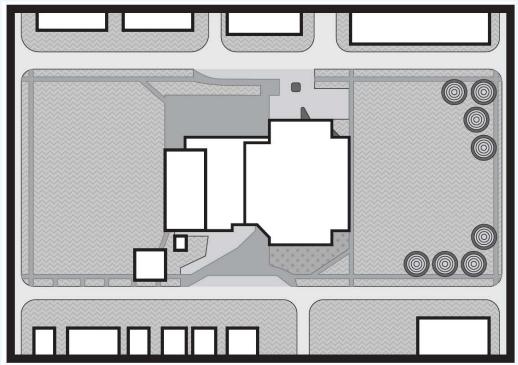
- Tend the garden beds on the mowing site by filling the bed areas with an orange highlighter
- Prune shrubs at the cleanup site by cutting out the shrub shapes and sticking them to the site in the locations provided (you can put any shrub in any location marked 's')
- Edge the walks and tree rings on the moving site by drawing a dark line using a crayon
- Only use tall grasses (green plantings) for the Cleanup job in the straight bed at front of building
 Only use tall grasses (green plantings) for the Cleanup job in the straight bed at front of building.
- Only use <u>iceMet</u> on the snow site entrance walks. Mark salting on those walks with a checkmark.
- Make piles of snow at the snow site in the spots marked as circles. Use the green highlighter to fill only 2 of the pile locations on the map.
- Mow the high school east lawn at the mowing site using green highlighter on turf areas
- Plow the snow site using the blue highlighter to cover the parking lot areas.
- Use yellow plantings in the very small bed near the front of the building at the cleanup site.
- Tend all the beds at the mowing site by filling the bed areas with an orange highlighter
 Plow the sidewalks at the snow site by using a green highlighter to cover the sidewalk areas.
- "Salt" the lot and sidewalks at the snow site by drawing small x's all around where the salt should
- be

 The Cleanup site customer wants no erange plants in the west bed and wants the east bed to
- have a mix of green grasses, yellow & red. Only orange and tall grasses (green) in SE bod.
- Mulch the garden beds at the cleanup site by coloring all the beds with the brown pencil crayon



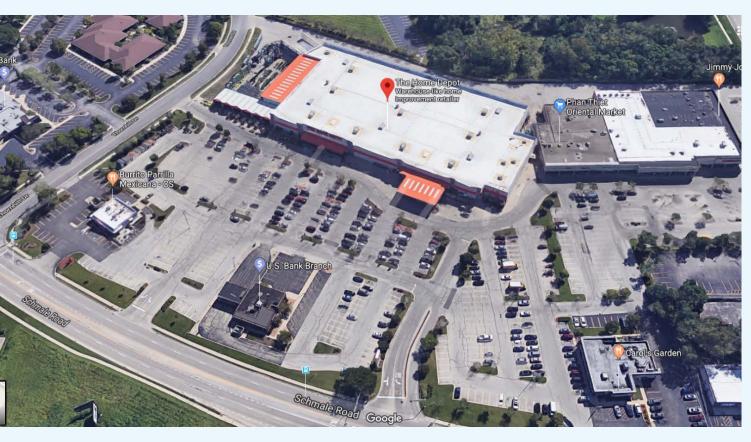
Site 1 Mowing

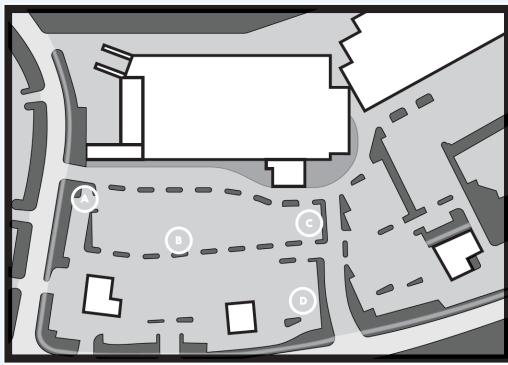






Site 2 Plowing

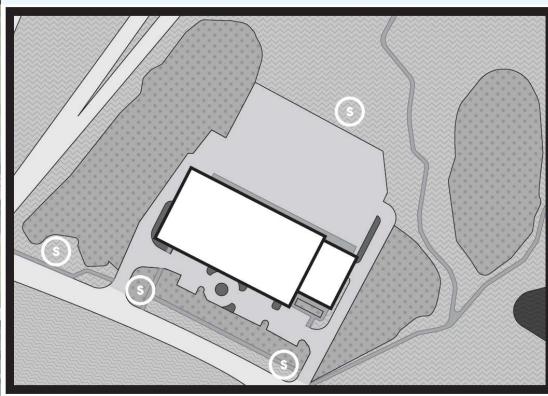






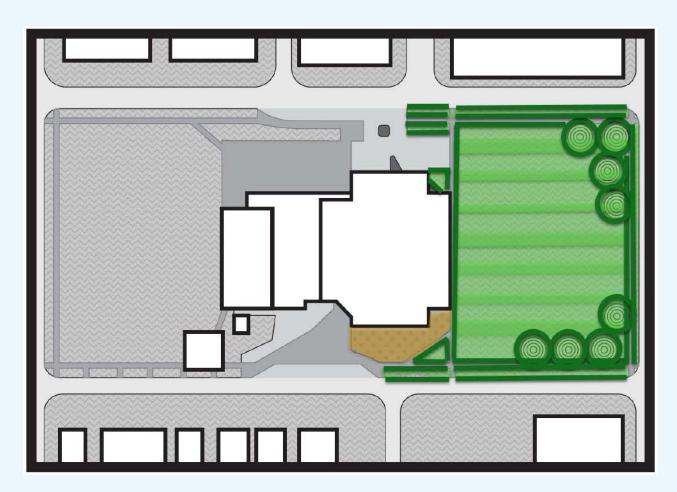
Site 3 Cleanup and Enhancements







Customer Specs



Are designated turf areas highlighted green? – be sure no areas are missed and that they only mowed the high school lawn. Did they 'stripe' the turf with nice neat highlighter lines? Did they 'edge' bedlines around all beds and trees and sidewalks? (crayon) Are the bed areas neatly highlighted with mulch? Did they remove the 'garbage' stickers off the map? Did they remove the 'garbage' stickers off the map? Total Site Score: TOTAL CREW SCORE (COPY SITE SCORES FROM ABOVE) Snow Site Cleanup Site Mowing Site Total (All Sites) Total Minutes Worked	MOWING SITE SCORECARD	Υ	N	☺	
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TOTAL CREW SCORE (COPY SITE SCORES FROM ABOVE) Snow Site Cleanup Site Mowing Site Total (All Sites) Total Minutes Worked			-2		
Snow Site Cleanup Site Mowing Site Total (All Sites) Total Minutes Worked	Total Site Sco				
Cleanup Site Mowing Site Total (All Sites) Total Minutes Worked	TOTAL CREW SCORE (COPY SITE SCORES FROM ABOVE)	CREW SCORE (COPY SITE SCORES FROM ABOVE)			
Mowing Site Total (All Sites) Total Minutes Worked	Snow Site				
Total (All Sites) Total Minutes Worked	Cleanup Site				
Total Minutes Worked	Mowing Site				
	Total (All Sites)				
(use start & end time above to calculate – add scissor + mulch penalty)	Total Minutes Worked				
	(use start & end time above to calculate – add scissor + mulch penalty)				
🖾 Earned Per Minute	💶 Earned Per Minute				

Customer Specs



			_	
CLEANUP SITE SCORECARD	Υ	N	\odot	
Did the crew do the cleanup site 2 nd in their route?	⊕+1	⊚-1		
Are the shrubs trimmed exactly to specifications (no black lines visible on shrub borders)	⊕+1	⊕-2		
visible on single portects)	13 +3			
Are the plantings installed neatly in a visually appealing pattern? You be the judge! Planting patterns not have to match picture.	⊕+2	⊚-1		
	1 +5	(2) +1		
Are annuals planted correctly – do beds have correct <u>colors?</u> Did they plant (approx.) the correct # of plants?	⊕+1	⊕-2		
		2 -2		
Did the crew accurately replace red plantings with orange plantings?	⊕+1	⊕-2		
		-2		
Green plantings (tall grasses) are either at the back, or in the middle of gardens. No more than 6 planted in front bed.	⊕+1	⊕-2		
militarie or gardens. No more than o planted in nont bed.		-2		

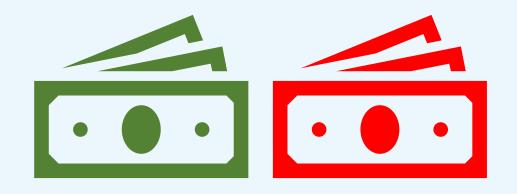


Customer Scoring

- Leave with everything they needed?
- Sites in the right order?
- Mowing 'striped' (or done neatly)?
- Right order of operations?
- Over-service? Under-service?
- Ask questions?



The Scoring



revenue or cost

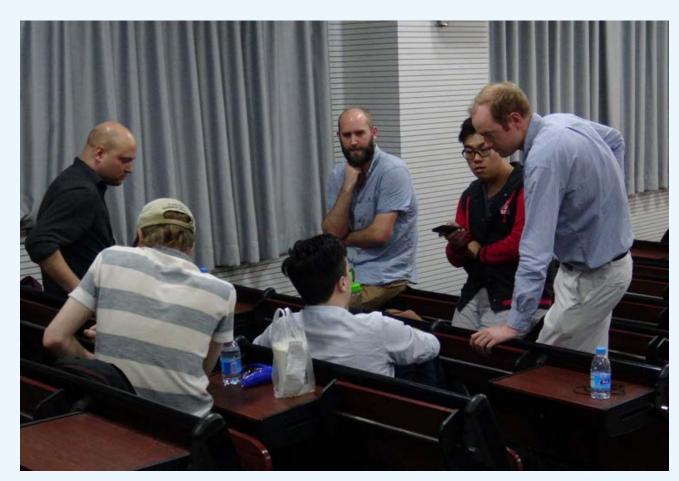


customer satisfaction



Go!

- Owners
- Account Managers
- Ops Managers
- Foreman
- Accounting officers





Lesson One: Plan Our Routes

100% didn't ask which site to do first.

100% guessed wrong.

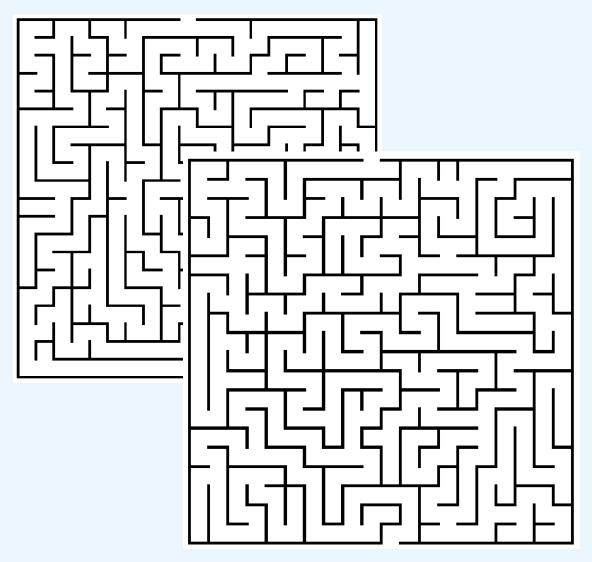


Where are you?!?!?!



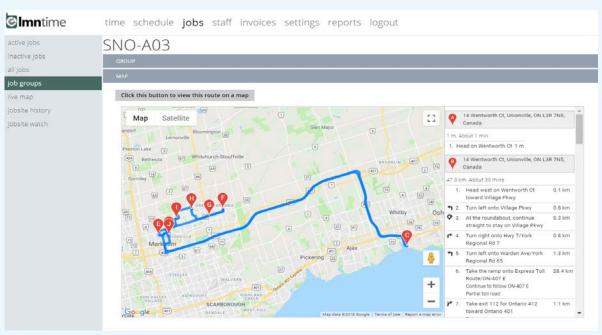
The Penalty

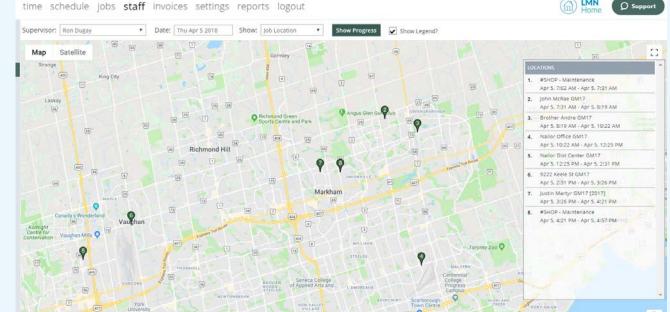






Lesson One: Setup Job Groups or Schedule, Verify







Lesson One: Plan Our Routes

Problems	How To Fix
 Upset customers 	 Job Groups as Routes
 Interrupt 'flow' – 2x driving 	 Schedule / Whiteboard
 Wasted time & fuel 	 Optimize your routes
	 Real-time verification



Lesson Two: Prepare Better

95% left without the required tools.





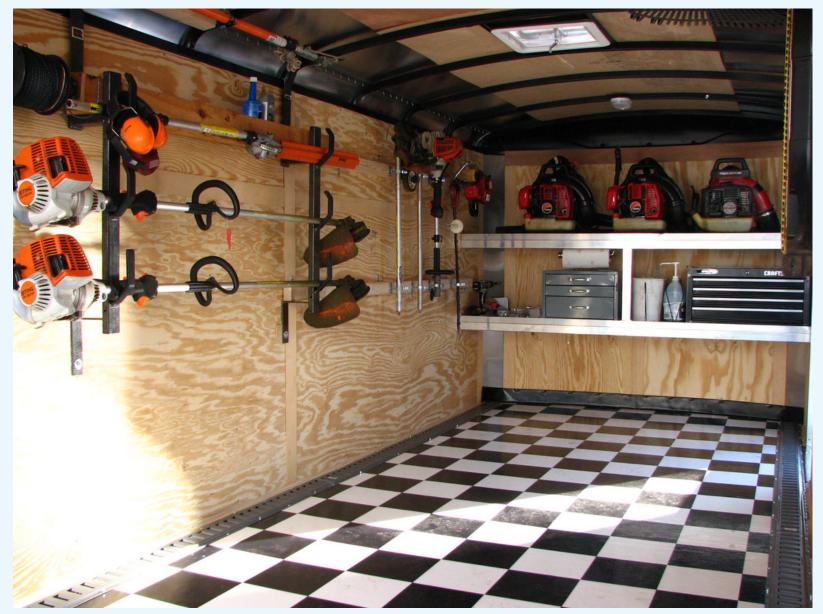


Lesson Two: Prepare Better

Problems	How To Fix
 Lost opportunity 	• Job Planners
 Lost fuel costs 	 Crew notes in estimates
 Job done incorrectly 	 Crew notes in templates
 Unsupervised labor 	 5S trailers & shop
 Frustrated staff & mgmt 	



Lesson Two: 5S Your Trailers and Shop





Lesson Three: Scope The Job

90% over-serviced the sites

- Areas outside scope
- Missed areas in scope
- Planted too much
- Pruned improperly







Lesson Three: Scope the Work

Problems	How To Fix
 Unrecovered costs 	 Make notes on estimate
 Lost profit 	 Import notes to LMN Time
 Lost opportunity 	 Task Notes on clock in
• Liability (snow)	 Upload site maps
 Upset customers 	 Default material qty



Lesson Three: Scope The Job

"Every hour spent planning jobs saves 10 hours of problems in the field."



Lesson Three: Upload Site Maps





Lesson Four: Manage Time

90% didn't manage their time.

- Took too long
- Did not finish in allotted time.

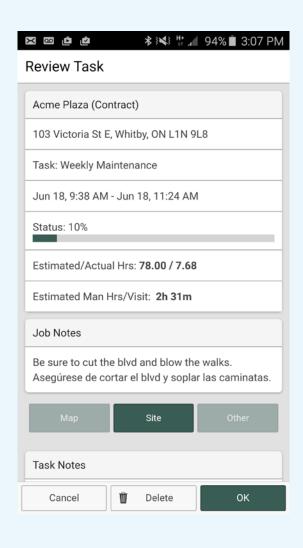


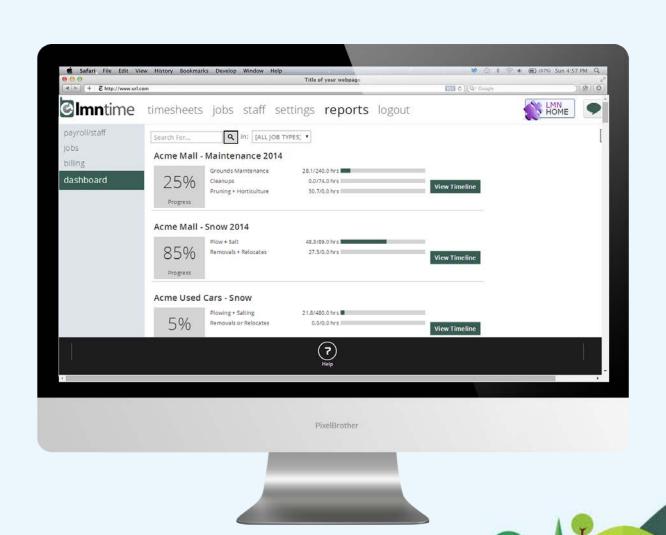


Problems	How To Fix
 Lost profit 	• Estimates based on man hrs
 Lost opportunity 	 Estimated hours in LMN Time
 Future poor estimates 	 Task Notes
	 Monitor & give feedback
	 Foreman Daily Review



Lesson Four: Use Estimated Hours, Task Notes





Immediately after the end of the 20 min game, crews were asked to fill out a timesheet for their jobs.





100% messed up paperwork

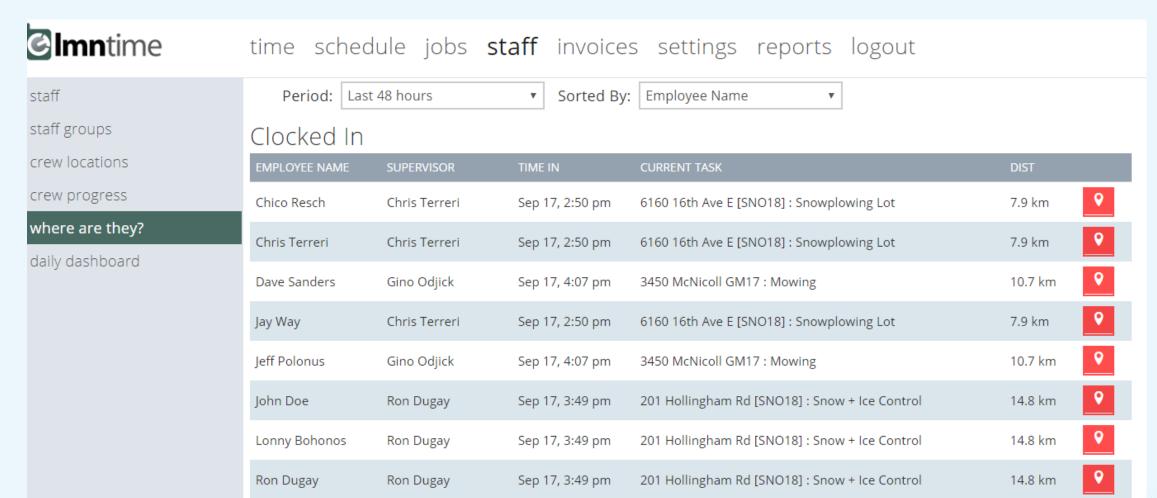
- Incorrect start/end times
- Incorrect date
- No employee names
- No am/pm





Problems	How To Fix
 Unreliable jobcosting 	 Real-time monitoring
 Time wasted entering data 	 Verify & enforce
 Future poor estimates 	Give feedback
 Worse customer service 	
 Payroll cheating 	





Round #2

We then play the game again... but this time, crews are given the app with:

- Mazes with solutions (routes) in the correct order
- Color coded 'solution sheets' (site maps)
- Estimated time goals + important notes



The Final Scores

Game Subjects	\$/min Round 1	\$/min Round 2
Group #1	\$4.00	\$14.00
Group #2	\$-5.00	\$15.00
Group #3	\$2.00	\$15.00
Group #4	\$1.00	\$13.50
Group #5	\$0.50	\$14.50



What's the cost of assuming common sense?



The Cost of Assuming Common Sense

Problem	Hrs/Week	Cost/Wk	Cost/Yr
Getting lost/traffic/wrong turns	.5 hrs	\$165	\$5,950
Forgetting tools & equip	2 hrs	\$650	\$23,400
Rework / Fixing Mistakes	1.5 hrs	\$490	\$17,640
Waiting for Instructions/Ppl	.75 hrs	\$245	\$8,820
Payroll rounding/cheating (10 min)	2.5 hrs	\$815	\$29,340
Waiting for whole crew to finish	1 hr	\$325	\$11,700
Loading truck & trailer	1.75 hrs	\$570	\$18,240



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Trade 1 idea for 100...

Share your best idea(s) from last year that:

- Increased revenue
 - Reduced costs
- Increased productivity





Improving Efficiency

Question + Answers

