EMBRACING EXCELLENCE

CONFERENCE CANADA WINNIPEG | JUNE 6-9, 2022

PRESENTED BY

CANADIAN **MANUFACTURERS EXPORTERS** 

CANADA'S LARGEST LEAN **EVENT IN 2022** 

**EMBRACINGEXCELLENCE.CA** 





SAFETY PERFORMANCE IMPROVEMENT THROUGH CULTURE CHANGE

#### **MARC DUPLESSIS**

Sr Manager – Human Resources
Toyota Motor Manufacturing Canada





### **OVERVIEW**

#### Mid-Term Continued First Beginning **Future** Improvement Review **Improvement** • Examples of Tracking • More examples • Next Steps for • Where we early culture of simple **Progress** TMMC were change programs • Re-evaluating How we activities Strategy started

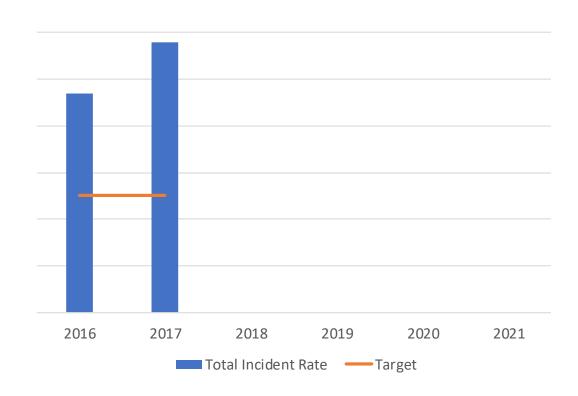


#### THE BEGINNING

#### TMMC SAFETY PERFORMANCE

- In 2017, TMMC had been trending upwards on Total Injury Rate
- More than double target
- Something new was required to change this trend

#### TMMC Total Incident Rate



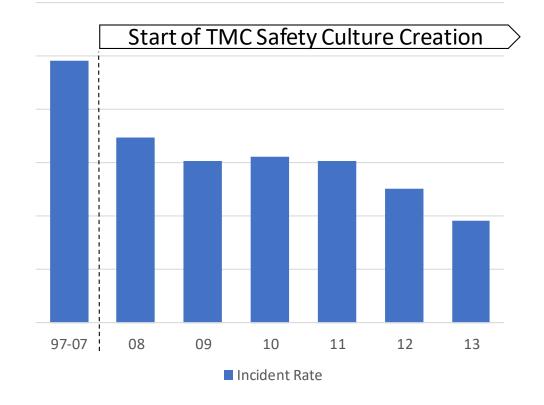


#### BENCHMARKING

#### TMC SAFETY PERFORMANCE

- Toyota Motor Corporation (TMC) had a similar problem in 2007.
- Focused on improving "Safety Culture".
- Achieved steady improvements in injury rate.
- DuPont helped guide them on this activity.

#### TMC Incident Rate

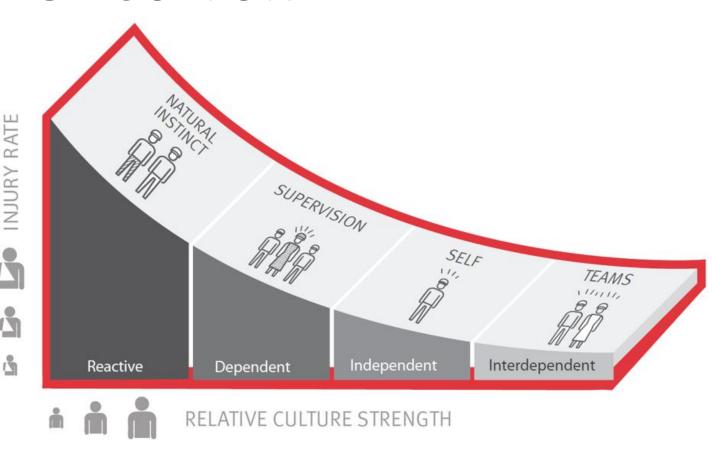




### PREPARING TO CHANGE CULTURE

Steps we followed to get started

- Measured current condition.
- Understood what improvement look like.
- Made multi-year plan.
- Gained consensus
- Culture does not change overnight!





video





### KEY THEMES TO GET STARTED

- Demonstrate Safety as top priority.
- Strong top management support.
- Present vision of "Zero Injuries"
- Clarify and enforce safety rules.
- Engage all Team Members



# SAFETY PERFORMANCE IMPROVEMENT THROUGH CULTURE CHANGE

#### **GEORGE WILSON**

Sr Manager – Welding
Toyota Motor Manufacturing Canada

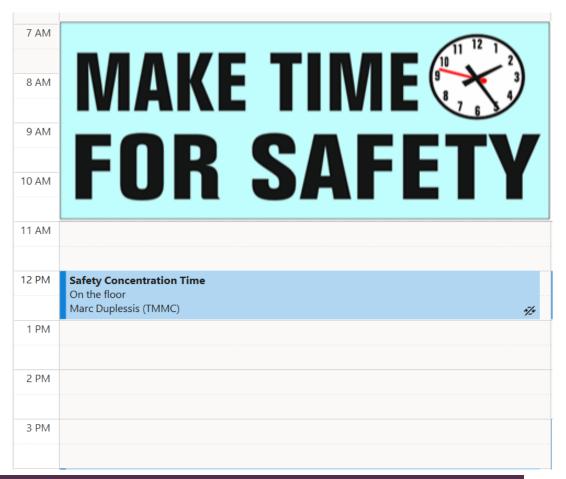




### MAKE SAFETY A PRIORITY

#### SAFETY CONCENTRATION TIME

- 1 hour per day.
- All levels of management expected to participate
- No other meetings allowed





### **HAVE A PLAN**

#### GET EVERYBODY ON THE SAME PAGE

- Designate the days activity
- Things you should be doing anyway
- Clarify expectations





### BE VISIBLE

#### MAKE SAFETY A PRIORITY

- Management wears green bump caps
- Only during Safety Concentration Time
- Makes everybody aware of what they are doing
- Engage Team Members through Mendomi





### MEANINGFUL ACTIVITIES

#### MAKING TIME FOR EXPECTED ACTIVITIES

- Supervisors often feel overwhelmed
- May not prioritize safety activities
- Provides dedicated time
- Makes clear Sr Management Expectations

SAFETY CONCENTRATION TIME			
	DAY	THEME	ACTIVITY
Monday	MANDATORY MONDAY'S	WORKPLACE COMPLIANCE	WORKPLACE INSPECTIONS     ACCIDENT INVESTIGATIONS     LOCK OUT AUDITS
Tuesday	2 "S" TUESDAY'S	• SORT • SET IN ORDER	• 2S AUDIT SHEET • GL / TL MENDOMI • FINDINGS / RESULTS
Wednesday	WHAT DID WE LEARN WEDNESDAY'S	REMEMBER PAST INCIDENTS	INCIDENT GO & SEE     CONFIRM PAST INCIDENT CM'S     SS AUDIT
Thursday	TEAM MEMBER ENGAGEMENT THURSDAY'S	MENDOMI	• 3MR • 4RKY • BEHAVIOUR AUDIT
Friday	FOLLOW UP FRIDAY'S	WEEKLY FOLLOW-UP	OPEN COMPLIANCE ITEMS     TAKE ACTION FINDINGS     NEW WELLNESS CONCERNS



### SHARE FINDINGS

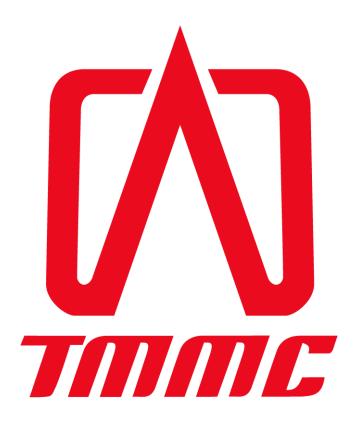
#### **EVERYBODY LEARNS**

- Gather at end of time
- Everybody shares what they saw
- Allows Management to "Yokoten" good solutions





### CHECKING YOUR PROGRESS





#### THE BEGINNING

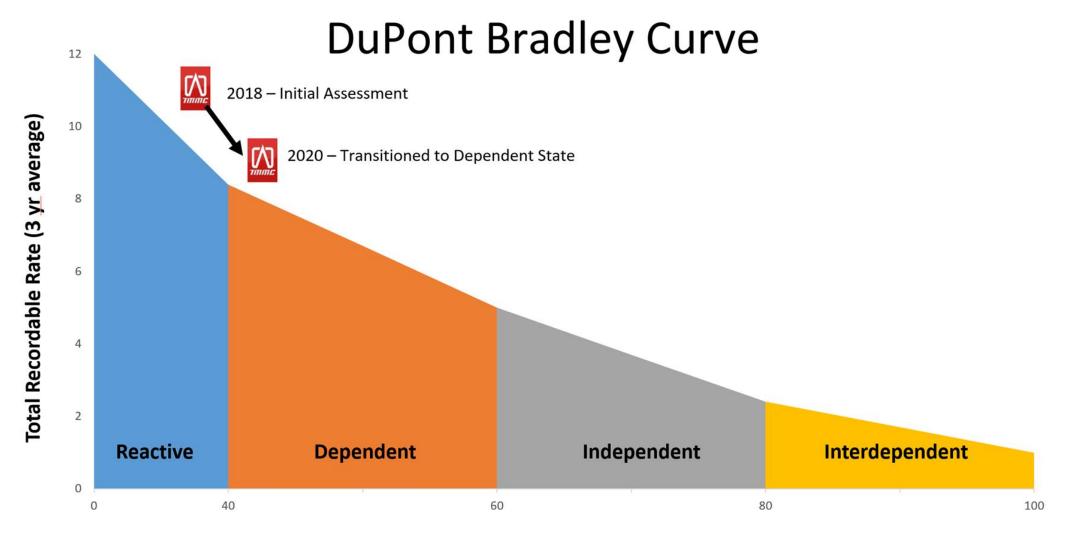
#### TMMC SAFETY PERFORMANCE

- By 2020, significant performance improvement
- Achieved target for first time in several years
- Indicators were good
- But what about the culture?

#### TMMC Total Incident Rate













### IMPROVEMENT IN ALL DIMENSIONS!

**DuPont Survey Results** 

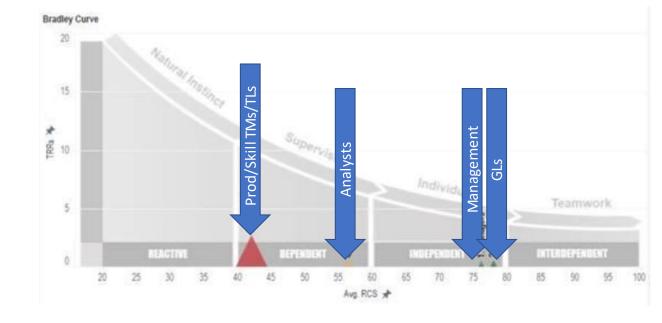




### **GOING DEEPER: TARGETTED ACTIVITY**

Not all groups were at the same point

- Management tended to be further than hourly workers.
- Data showed a gap in strategy.
- Focus on Team Members.





### SAFETY LEARNING CENTRE

#### Purpose:

- Make TMs better understand some of the common risks here
- What can happen
- What we do to eliminate/mitigate the risk
- Every TM participated in 1 hour session
- First thing seen entering plant





➤ Effective HANDS-ON development of safety mindset. Fire & **Explosion 5S** Pinch Laceration **Chemical Burns** Fire & Explosion 4 Chemical Laceration 155 Pinch 100 111 Slip, Trips & **Sprains & PPE/Noise** Crush **Struck By Electric Shock Falls Strains** Sprains & Strains Slips, Trips & Falls Struck By PPE/Noise 8 Crush



#### **Remember Past Incidents**

[ Plant Level ]

[Shop Level]





### **Spot the Hazard VR (Virtual Reality)**

> Flexible/Virtual environment to train TMs to recognize hazards.

Improve Safety "Critical Eye".





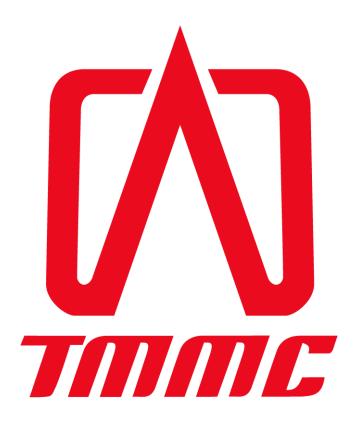


Select Module



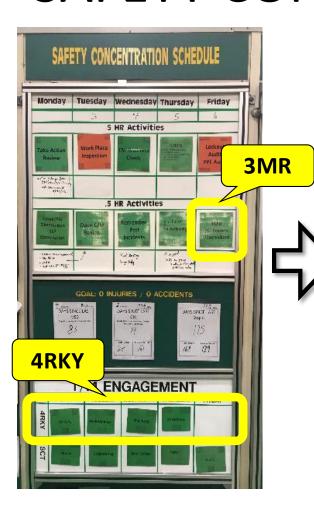


### **ENGAGING TEAM MEMBERS**





### SAFETY CONCENTRATION TIME ACTIVITIES







Increase TM Risk
Awareness & Sensitivity





Strengthen GL Understanding of Process Challenges





How to conduct

Round 1:

"Where is the

Hazard?"

ound 1 and 2 will be

completed by the TM. TM identifies hazards, risks.

and controls based on

experience and judgement

with guidance of the TSMS

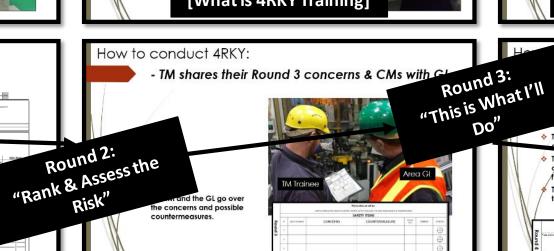
# 4RKY (4 Round Kiken Yochi)

**Team Member Risk Awareness & Sensitivity Training** 

&2 using 4RKY form















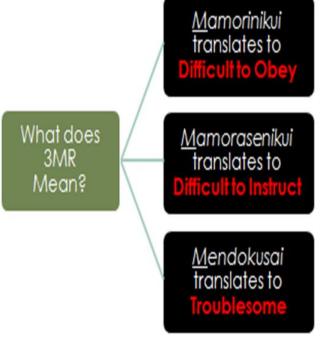
### 4RKY TM Feedback





## 3MR (Eliminate Difficult Rule)

- Make Better/Safer Processes & Standardized Work
- Build Trust by 'DOING' difficult process & Engaging in 2-way Communication
- Better understanding of Team Member process difficulties



Process EIS/SWC NOT EASY TO FOLLOW (TM View)

➤ Rule #2:

Process EIS/SWC NOT EASY TO TEACH (Mgmt View)

➤ Rule #3:

Process is BOTHERSOME or DIFFICULT TO DO

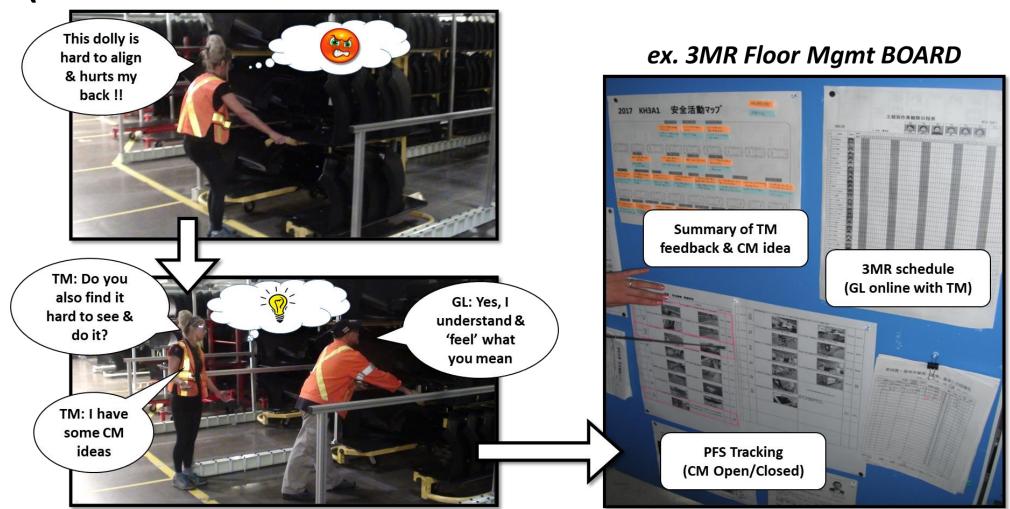


Can GL

Do?



# 3MR (Eliminate Difficult Rule -> Make Safe Process)





### THE STORY CONTINUES.....





# Safety Culture and COVID 19



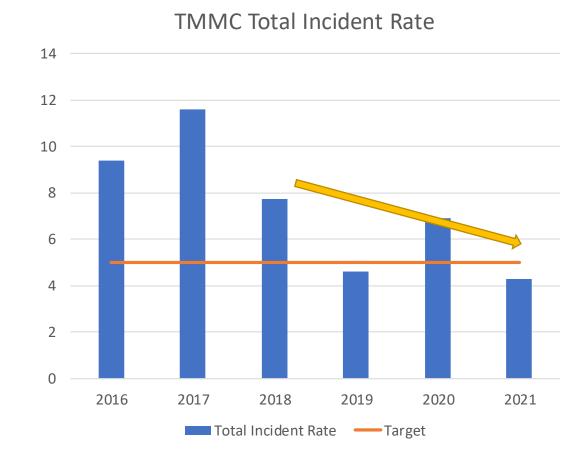
- TMMC acknowledged the current condition of our safety culture and utilized it when deciding how to apply standards
- As a result, TMMC decided to ONLY allow company issued masks to achieve an easily understood and auditable std
- Key requirements when in a dependent safety culture
- Used mask wearing as an example of interdependent safety culture – "we all look out for each other"



### NOW...

#### TMMC SAFETY PERFORMANCE

- Although progress is slower, improvement continues
- 2021: BEST YEAR EVER
- Culture to be measured this month!
- Expecting continued improvement





#### **KEY LEARNING POINTS**

Things to remember when changing safety culture.

- Culture takes time to change.
- Have a plan.
- Executive direction.
- Follow the data: adjust as required.
- Engage everybody.
- Make safety the top priority



### THANK YOU!

# SAFETY PERFORMANCE IMPROVEMENT THROUGH CULTURE CHANGE

Marc Duplessis & George Wilson Toyota Motor Mfg Canada

marc.duplessis@toyota.com, george.wilson@toyota.com