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2020 NC CRAFT BREWERS CONFERENCE

BREWERY SAFETY:

HOW NOT TO HURT YOURSELF OR YOUR BUDGET

MATT STINCHFIELD
SAFETY AMBASSADOR
BREWERS ASSOCIATION

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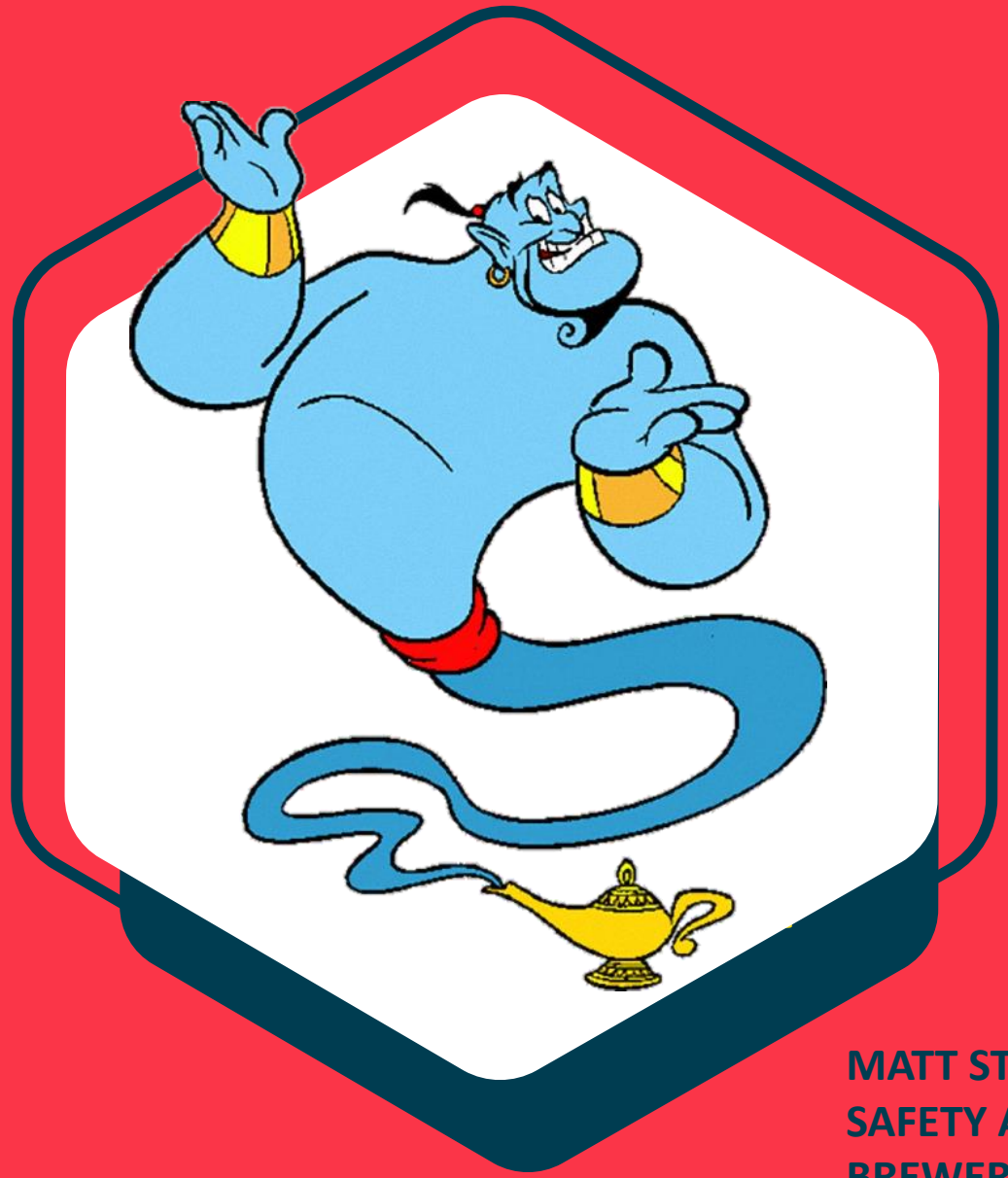

HINT…
IT AIN'T MAGIC!

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First Off

What is Safety?

Freedom from those conditions that can cause death, injury, occupational illness, or damage to or loss of equipment or property, or damage to the environment.

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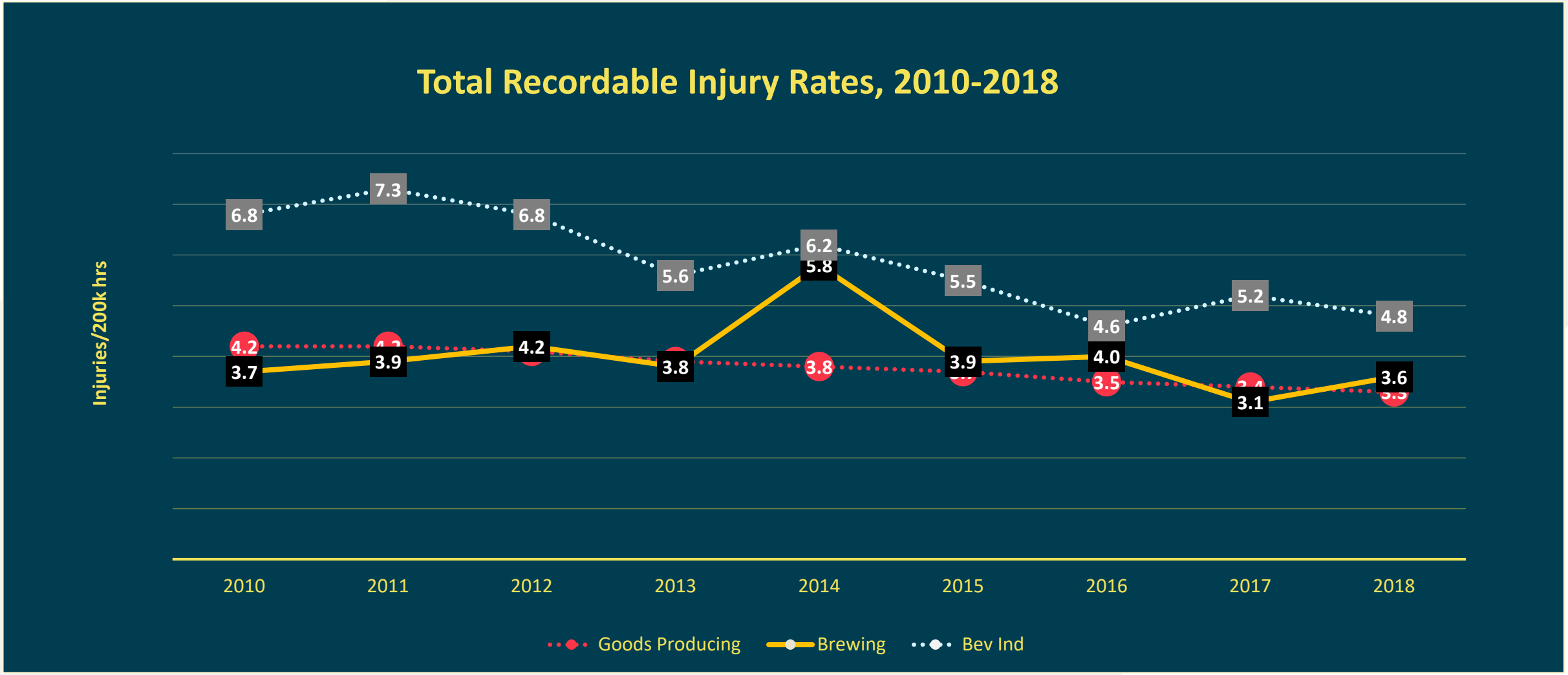
DO WE NEED TO IMPROVE SAFETY?



Simplify Definition

Safety is Freedom from Harm

WHO CREATES A WORKPLACE FREE FROM HARM?

- *Employer has responsibility to create safe and healthful workplace*
- *Employees must perform as trained, use provided equipment, follow all laws and regulations*

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How Do We

Create this Safe Workplace?

IT'S CALLED HAZARD ASSESSMENT

MANAGEMENT & STAFF

GOALS

- *Improve safety, quality, efficiency, sustainability*
- *Document best, safest procedure*
- *Build trust and culture*

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HAZARD ASSESSMENT

Use the

STANDARD FORMAT

TEMPLATES ARE AVAILABLE

1. *Outline brewery tasks step by step*
2. *Assess hazards associated with every step*
3. *Reduce or eliminate hazards ($0 - $ - $$+)*
4. *Communicate the safe way to perform the job*

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Here's a Hazard Assessment Example

FOUR SIMPLE STEPS

Conduct a HazAss for all brewery tasks, starting with the most hazardous.

VESSEL

CIP A

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No. 1

Outline the Task

1. Connect CIP to FV
2. Fill CIP Tanks
3. Heat Tank
4. Circulate Caustic
5. Drain Caustic
6. Load Rinse
7. Circulate Rinse
8. Drain Rinse & Air Dry

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No. 1

Outline the Task

1. Connect CIP to FV
2. Fill CIP Tanks
3. Heat Tank
4. Circulate Caustic
5. Drain Caustic
6. Load Rinse
7. Circulate Rinse
8. Drain Rinse & Air Dry

Opt. Drill Down to Instructions

a. Add cool water to left tank up to overfill tube

b. Add hot water to right tank up to 1” below overfill tube

c. Dispense 4,000 ml caustic into plastic beaker

d. Add caustic to right (hot) tank

e. Rinse beaker and put back on caustic drum

No. 2

Identify Hazards

NO.	STEP	HAZARDS
1	CIP to FV	Slips & Trips, Electrical
2	Fill CIP Tanks	Slips & Trips, Temperature, Concentrated Caustic
3	Heat Tank	Slips & Trips, Temperature, Dilute Caustic
4	Circulate Caustic	Slips & Trips, Temperature, Dilute Caustic
5	Drain Caustic	Slips & Trips, Temperature, Dilute Caustic
6	Load Rinse	Slips & Trips
7	Circulate Rinse	Slips & Trips
8	Drain Rinse	Slips & Trips

PLACARD PDF

brewersassociation.org

Click Resource Hub,

Safety, Hazard Assessment BMP

No. 3

Specify Hazard Controls

Identified Hazards for Step 2, Filling the CIP Tanks

NO.	STEP	HAZARDS
2	Fill CIP Tanks	Slips & Trips, Temperature, Conc. Caustic

Slips and Trips Hazard Controls

PREVENTION (SWP & AC)	PROTECTION (EC & PPE)
Avoid walking in puddles	Textured surfaces
Keep eyes on the floor, don't hurry	Slotted drain covers in place (not open)
Walk like a duck (lower ctr. of grav.)	Waterproof, slip resistant boots
Organize or stow hoses and cords	

No. 3

Specify Hazard Controls

Identified Hazards for Step 2, Filling the CIP Tanks

NO.	STEP	HAZARDS
2	Fill CIP Tanks	Slips & Trips, Temperature, Conc. Caustic

Hot Temperature Hazard Controls

PREVENTION (SWP & AC)	PROTECTION (EC & PPE)
Stand back when filling, recirculating (LoF injury)	Thermostatic temp. control
Disconnect tri-clamps carefully with valves closed	Long pants, long sleeved shirt
	Rubber boots, thick rubber gloves, safety glasses

Concentrated Caustic Hazard Controls

PREVENTION (SWP & AC)	PROTECTION (EC & PPE)
Read, understand SDS; Observe labels & placards	Appropriate pumps, non-reactive
Trained in chemical handling	Long pants, long sleeved shirt
Good housekeeping	Rubber boots, thick rubber gloves, apron
Rinse affected surfaces	Goggles & splash shield
Dispense where/when others will not be affected	

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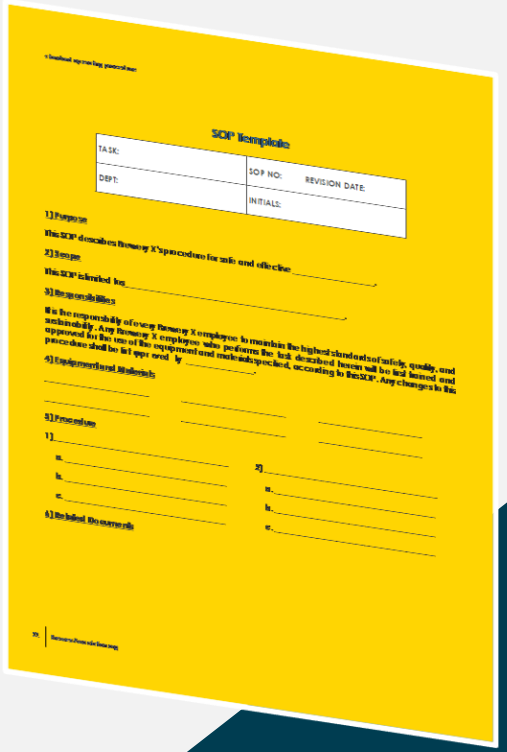
No. 4

Write/Revise SOP

Original Outline of Steps, plus
Procedural Instructions and Hazard Controls

1. Connect CIP to FV
2. Fill CIP Tanks
3. Heat Tank
4. Circulate Caustic
5. Drain Caustic
6. Load Rinse
7. Circulate Rinse
8. Drain Rinse & Air Dry


SOP Template

TASK:
SOP NO: REVISION DATE:
DEPT:
INITIALS:

HAZASS & SOP TEMPLATES brewersassociation.org
Click Resource Hub, Safety, Hazard Assessment BMP

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COMMITMENT

At the Brewers Association we believe in:

Valuing safety and a culture required to support it.

2020 Brewers Association Board of Directors

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FREE RESOURCES

Free Access

MULTI-FORMAT

100+ ONLINE RESOURCES AT RESOURCE HUB

- *Video Training – prints certificates*
- *Best Management Practices*
- *1-Pagers*
- *Archived CBC, PowerHour, CollabHour, BA Forum, Lessons Learned and more*
- *Also check out*
  - *MBAA Free Resources*
  - *Your state OSHA Consultation Office*

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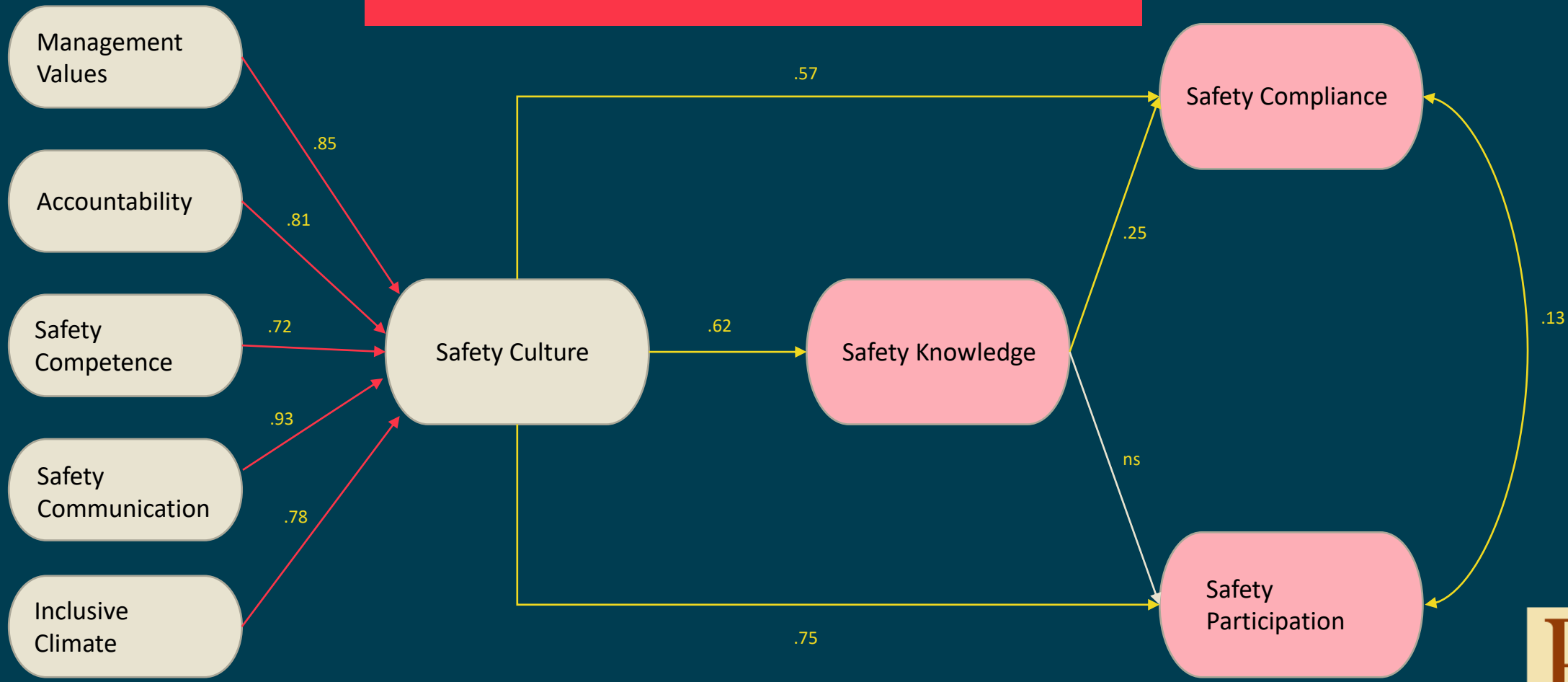
CULTURE CONUNDRUM



SAFETY CULTURE DRIVES SAFETY PERFORMANCE

INCLUSIVITY

Employees, managers, others are involved in development and reporting of policies, procedures, training, near-misses/accidents, recognition.

COMPETANCY

Employees are empowered to learn and perfect job skills and safe workplace methods; competence derives from mentoring, training, evaluation, and industry involvement.

MANAGEMENT VALUES

Management places high value on safety, makes it a company priority, involves employees at all levels, provides necessary training and equipment resources.

ACCOUNTABILITY

Staff and management are held to same level of accountability and responsibility for ensuring safe workplace. Systems for praise and discipline exist and are consistently utilized.

COMMUNICATION

Frequent, consistent messaging of policies and procedures. Dynamic communication through all levels of organization: in person, written, and digital.

GET

TO IT

SUMMARY

WE NOW KNOW…

- *Definition of ‘Safety’ as a value*
- *We need to reduce injuries & illnesses*
- *Safe workplaces originate with Hazard Assessment & SOPs*
- *Most controls cost little to nothing*
- *BA is committed to safety, has free resources, leads in strategic alliances*
- *Culture drives safe practices, safety knowledge, compliance*

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THANK YOU

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