PROCESS SAFETY MANAGEMENT (PSM) IN WOOD PRODUCTS MANUFACTURING

PROCESS SAFETY CULTURE

INTRODUCTION TO PROCESS SAFETY CULTURE

Process safety culture is the collective mindset of the organization with respect to safety and risk, including attitudes and behaviours.

Process safety culture is an element of process safety management (PSM). The CSA Z767 *Process Safety Management* framework is shown below; process safety culture is highlighted.

Process Safety Management Elements			
Process safety leadership	Understanding hazards and risks	Risk management	Review and improvement
Accountability	Process knowledge and documentation	Training and competency	Investigation
Regulations, codes, and standards	Project review and design procedures	Management of change	Audits process
Process safety culture	Process risk assessment and risk reduction	Process and equipment integrity	Enhancement of process safety knowledge
Conduct of operations — senior management responsibility	Human factors	Emergency management planning	Key performance indicators

CONSIDER PROCESS SAFETY CULTURE IN YOUR OPERATION

● Has process safety been formally identified as a core value at your facility?

● Do organizational policies include statements establishing process safety as a measure of successful operations?

● Are workers encouraged to raise (through supervisors or otherwise) concerns regarding deficiencies in the process safety system? Examples include failures in maintenance, failure of permit to work, safety system bypasses, and operating outside of safe operating limits.

● Are workers informed and encouraged that they have the responsibility and authority to initiate stoppages of unsafe work or operations?

NEXT STEPS FOR WPAC MEMBERS

Building on the research results of an Innovation at Work project (funded by WorkSafeBC), the BC Forest Council and WPAC will support operations for the implementation of PSM, which will involve activities focussed on outcomes including:

- A process safety culture survey to measure and track the effectiveness of your culture,
- A process safety culture self-assessment worksheet and action plan, and
- A process safety culture policy.

RESOURCES

Process Safety Initiative (WorkSafeBC)

CSA Z767-17 Process Safety Management Standard (CSA Group)

SELECTED PROCESS SAFETY CULTURE RESOURCES

Best Practice/Resource and Link
Transport Canada (2021). Example Safety Culture Policy Statement
Energy Institute (2023a). Hearts and Minds Safety Culture Toolkit
Energy Institute (2023b). Hearts and Minds Safety Culture: Chronic Unease Video
WorkSafe Queensland (2023): Safety Climate and Safety Culture Videos and Guides
CCHS (2011a). Safety Culture Survey Example: Baker Panel Report
Contra Costa County Health Services (CCHS) (2011b). Safety Culture Assessments Overview
Center for Chemical Process Safety (CCPS) (2021). Building Process Safety Culture Tool Kit: Tools to Enhance Process Safety Performance
HSE (2023). Organisational Culture: Guidance