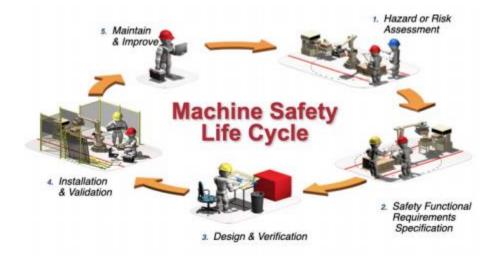
## In partnership with the Portage County Safety Council

## This course will cover:

- Safety at your enterprise
  - ✓ What's the current state of safety?
  - ✓ What aspects of safety in your manufacturing environment could be improved?
  - ✓ What are the stated safety goals or would be considered an ideal environment?
  - This kick-off section is best established and presented by the highest-ranking person available (plant manager or other sr. executive) at the very beginning of the workshop to set the appropriate tone that aligns with company policies and culture.
- Safety in the context of manufacturing
  - ✓ Societal Trends Affecting Industry
  - ✓ Safety and Productivity
  - ✓ The 3 primary elements of the Safety Maturity Index (SMI)
    - Culture
    - Policy/Procedures
    - Technology/Techniques
    - How the elements are interrelated
  - ✓ Introduction of the Safety/Productivity RIO calculator
- Safety Laws, Standards and Compliance
  - ✓ Compliance to the OSHA regulations for machinery safety?
  - ✓ What are the laws and how do safety standards help you comply with them?
  - ✓ Default requirements and the *Minor Servicing Exception*
- Risk Assessment and Evaluation Methods
  - ✓ Hazard identification
  - ✓ What is risk?
  - ✓ How to assess and quantify risk?
  - ✓ Evaluation of risk as acceptable/unacceptable





## INTEGRATED MILL SYSTEMS - MACHINE SAFETY WORKSHOP AGENDA

- Risk Reduction Methods & Technologies
  - ✓ What are the various means of reducing the risk of injury on machines?
  - ✓ Which are appropriate and most practical for your application?
  - ✓ ALARP As low as reasonably possible
  - ✓ Practicability/Justification for OSHA's minor servicing exception
- The Safety Functional Requirements Specification (SFRS)
  - ✓ For functional safety engineered solutions
  - ✓ Engineering study
  - ✓ Stop-time calculation
- Safety Circuits Designs & Verification
  - ✓ What makes a control circuit a safety circuit?
  - ✓ The elements that define performance level (PL), category and safety integrity level (SIL)
  - ✓ What level of PL or SIL is appropriate?
  - ✓ How is the engineering verified and documented?
- Commissioning and Validation of the risk mitigation solution
  - ✓ How to ensure the design meets the PL or SIL requirements
  - ✓ The steps and tools to ensure the safety mitigation investment met the requirements
- Wrap-up and next steps
  - ✓ Recommendations on how to address each of the 3 elements of safety maturity.
  - ✓ Discuss the immediate next steps

## Fall 2021 Online Course Schedule:

- 1. Wednesday, September 1, 2021, 11am-12pm, on Zoom Webinar
- 2. Wednesday, September 8, 2021, 11am-12pm, on Zoom Webinar
- 3. Wednesday, September 15, 2021, 11am-12pm, on Zoom Webinar
- 4. Wednesday, September 22, 2021, 11am-12pm, on Zoom Webinar
- 5. Wednesday, September 29, 2021, 11am-12pm, on Zoom Webinar



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