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SITRUST™ - 3 Days Online Manufacturing Safety Training

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Sr. No.	Topics
1	Safety Management:
	Basic Principal of Electrical Accident Prevention
	 Fundamentas and Dangers from Electricity Tool Box Talk (TBT), PTW Permit to work (PTW) and Lock Out
	Tag Out (LOTO)
2	Hazards Identification & Risk Assessment (HIRA) and assignment
3	Safe Work Method Statement (SWMS) based on story board – Basic Concept & Assignments
4	Machine guarding & Safety Interlocks
	 Types of guarding & Illustration with equipment's (Air Handling Unit, Air compressors)
	 Inherently safe Design principles for guarding
	 Various types of interlock devices
	Performance Level (PL) Sefety Integrity Level (SIL)
	Safety Integrity Level (SIL)
5	Risk mitigation measures in machineries
	Light curtain
	Two hand controlLaser scanner
	Pressure sensitive edges
	Safety Relay & PLC

Safe Work Method Statement (SWMS) – Assignment Status Review

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7 Risk mitigation measures in the Material handling equipments & infrastructures

- Material Handling Safety interlocks in EOT crane, BOPT, Goliath crane, Forklifts, High Reach stacker, Scissor lifts, Man lifter, Mobile crane etc.
- Infrastructures- DG Set, STP (Sewage Treatment Plant)

8 Material handling

- Types of Lifting & safe working Load, Lifting
- 9 Safe Work Method Statement (SWMS) Assignments Presentation by Participants

10 Assessment:

Safety Commitment, Training Feedback and SITRUST Online Examination



SITRUST™ - 2 Days Online Manufacturing Safety in Industries Training

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Sr. No. DAY 1 - Topics

1 Safety Management and HIRA (Hazard Identification and Risk Assessment)

- Safety management
- Hazard identification & Risk assessment of various machineries
- SWMS (Safe Work Method Statement) introduction to groups
- Case Studies & Importance of Safe Work Method Statement

Break

2 Machine guarding & Safety Interlocks

- Standards and Legal requirements in machine safety
- Safety while maintenance in machineries
- Types of guarding & Illustration with equipment's (AHU, Air compressors)
- Inherently safe Design principles for guarding
- Various level of interlock guarding
- Performance Level (PL)
- Safety Integrity Level (SIL)
- Short online quiz

Sr. No. DAY 2 - Topics

- 3 Risk mitigation measures in machineries
 - Light curtain Illustration with practical machineries
 - Two hand control Illustration with practical machineries
 - Laser scanner Illustration with practical machineries
 - Emergency button Illustration with practical machineries
 - Safety Relay & PLC and implementation in a practical machine

Break

- 4 Risk mitigation measures in material handling equipments
 - Types of Lifting & safe working Load
 - Lifting tools& tackles
 - Safety interlocks in EOT crane, BOPT, Goliath crane, Forklifts, High Reach stacker, Scissor lifts, Man lifter, Mobile crane etc.
- 5 Assignments SWMS Discussion & Review
- 6 Safety Commitment, Feedback and Assessment



SITRUST™ - 3 Hours Online Manufacturing Safety Training Module 1: Machine Safety in Industries

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Sr. No.	Topics	Duration
1	Machine guarding and safety Interlocks	
	 Machine Safety ISO & IEC Standards Performance Level (PL) & Safety Integrity Level (SIL) Types of guarding & Safety Interlocks 	1.5 Hours
	Break (10 Mins)	
2	Machine Safety Risk Mitigation Measures	
	 Emergency button, Light curtain, Two hand control and Laser scanner Automation solution for a safe machine 	1.5 Hours



SITRUST™ - 3 Hours Online Manufacturing Safety Training Module 2: Material Handling Safety

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Sr. No.	Topics	Duration
1	Material Handling Safety	
	Lifting methods & Safe working loadLifting tools & tackles	1.5 Hours
	Break (10 Mins)	
	Safety interlocks for material handling equipment	1.5 Hours



SITRUST™ - 3 Hours Online Manufacturing Safety Training Module 3: Hazard Identification & Risk Assessment and Preparation of Safe Work Method Statement

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Sr. No.	Topics	Duration
1	Hazard Identification & Risk Assessment	
	 Hazard Identification Risk Assessment and As Low As Reasonably Practicable (ALARP) 	1.5 Hours
	Break (10 Mins)	
2	Safe Work Method Statement (SWMS)	
	Fundamentals of Safe Work Method StatementMethod to Prepare SWMS	1.5 Hours



SITRUST™ - 3 Hours Online Manufacturing Safety Training Module 4: Fire Safety

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Sr. No.	Topics	Duration
1	Basics of Fire safety	
	 Fire triangle and Fire extinguishing principles Basic material properties related to fire safety MSDS (Material Safety Data Sheet) & its importance Classes of fire Electrical Fire & AFDD (Arc Flash Detection Device) 	1.5 Hours
	Break (10 Mins)	
2	Fire Detection and Fire Suppression System	
	 Types of Fire extinguishers and their selection Fire hydrant system and fire pump room Fire hoses and nozzles Fire detectors and alarming system Gas based fire suppression Emergency evacuation and first aid related to fire incident 	1.5 Hours