



EHS Integrated Management System (IMS)

Overview

- › Provides one EHS Data Management System for:
 - › Incident Reporting and Management
 - › Industrial Hygiene Monitoring
 - › Environmental Management
 - › Observations
 - › Audits/Assessments
- › Notifications
- › Real Time Dashboards
- › Reporting Functionality
- › Shared incident information data source between EHS and Risk
- › Ability to provide immediate data capture of minimum required information for Management, Risk, and EHS
- › Ability to add/revise incident information throughout investigation/case management life cycle
 - › Employee Details
 - › Involved Personnel/Witnesses
 - › File Attachments
- › Multiple Language Support

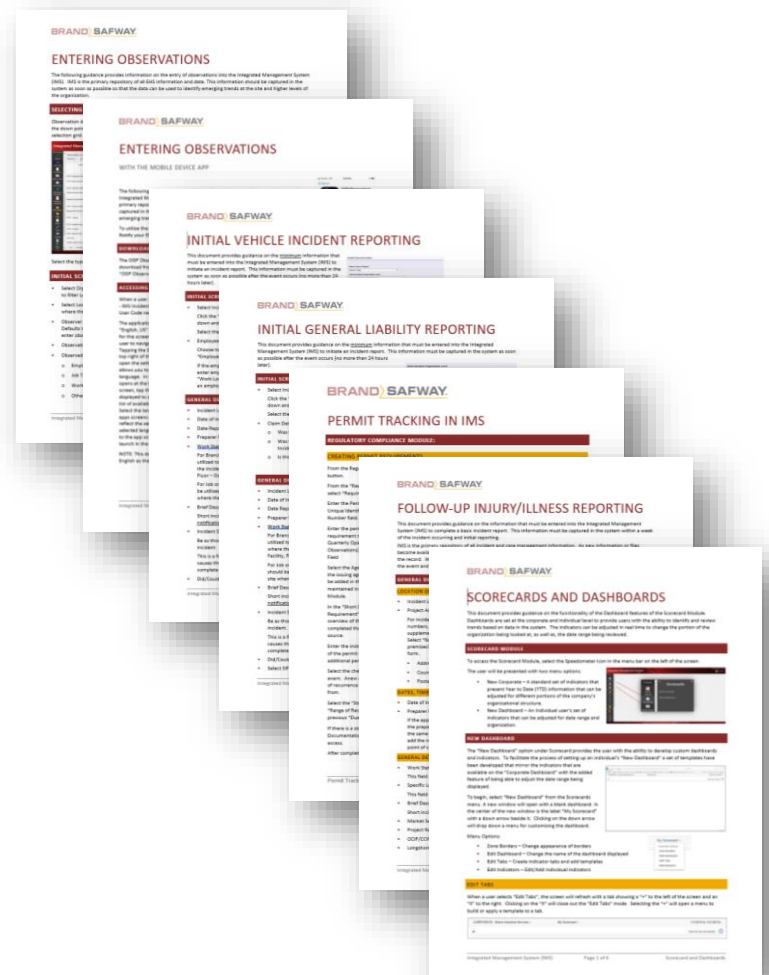


Incident Reporting & Follow Up Entry

- › Expectation to have initial entry of basic information within 24 hours of an incident being reported
 - › “Quick Guides” developed to facilitate transition and explain minimum data entry requirements
- › Follow-up entry of severity/classification and detailed description information entered no later than following Thursday

FOLLOW UP ENTRY

- › Data captured provides categorized data for trending purposes
- › Allows for “complete picture” of the incident, its causes, and its effects
- › Provides “living record” of event



Industrial Hygiene Monitoring & Environmental Management

- › Database for all IH monitoring data
 - › Field Note information
 - › Lab Results
 - › Exposure Limit comparison
 - › File Attachments
- › Ability to generate data and reports for exposure groups to establish minimum PPE requirements for work with the potential for exposures
- › Environmental Permits
 - › Location Permits
 - › Permit Requirements
 - › Reporting Requirements
 - › Agency Notifications
 - › Renewal Cycle
- › Spill Incidents
 - › Materials/Quantities
 - › Reportable Quantities
 - › Agency Notifications

Industrial Hygiene Module - Internet Explorer
Employee - Reynaldo Sandoval
Case Number - 2017-720-006

Sample Results Input Form

Location: 720 - Houston

General Details

Date: 7/7/2017
Sample Number: 3/7/7(17)
Sample Event Number: [Blank]
Task Being Performed: Mixing Fireproofing Materials
Work Station/Area: TRAIN 5
Consumables: [SELECT ONE]
Base Metals: [SELECT ONE]
Time On: 07:28 AM
Time Off: 01:21 PM
Flow Unit: Liters
Flow Start: 2.4690
Flow Finish: 2.4370
Total Time: 5:53
Average Flow Rate: 2.493
Volume: 880.0290

Environmental Conditions

Temperature (°F): 80.00
Humidity (%): 85.00
Barometric Pressure: 30.05
Wind Speed: 1.00
Wind Direction: South

Sample Results

STEL | Ceiling | TWA

Substance	LOD	Result	Concentration	TWA (8)	TWA (10)	TWA (12)	TWA (Partial)	OSHA	Exposure Limit
Silica, crystalline, quartz, respirable dust	N	9.9 µg	11000 µg/m ³	50 µg/m ³	0 µg	0 µg	0 µg	OSHA	Y

Files | Corrective Actions | PPE | Similar Exposure Group | Controls

PPE Category	PPE	Comment
Foot and Leg Protection	Solid Toe Shoes/Boots	
Hand and Arm Protection	Cut resistant gloves	Magid approved impact gloves
Head Protection	Type I Class E (electrical application) Hardhat	
Hearing Protection	Ear Plugs	Howard Leight (NRR 31)
Respiratory Protection	Air Purifying Respirator - Half facemask	Employee's personal result for RCS was in excess of OSHA's proposed PEL for RCS of 50 µg/m ³ . The respiratory protection (half-face with P100 filter) worn at the time did not have the correct APF, and should be evaluated for a higher possible protection factor. Also noted from the accredited lab report had stated "Less than 0.05% of Particulate Note: Elevated Reporting Quantitation Limit is due to excessive loading of the membrane which necessitated sub-sampling to obtain suitable range for the method resulting in a dilution of the sample."

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