



End-to-End Industrial Hygiene Data and Information Management

Industrial Hygiene Sampling has become an important aspect of many organization's environmental, health & safety program. Managing and maintaining industrial hygiene data has its limitations when utilizing a paper based system. Organizations often find difficulty in using a paper based program to compare sampling results in similar operations to ensure consistency in organizational practices.

A web-based application allows the general user the ability to create an infrastructure around the entire sampling process. Software solutions enable the organization to create a high-level platform to organize all sampling events and methodologies in a consistent manner. In addition, the use of a web-based application allows an organization to link corrective and preventive actions to any sampling results above the Occupational Exposure Limits and / or Action Levels as well as any follow up sampling required. Users will find that with a web-based application, organizations will reduce their own exposure levels.



ProcessMAP's Industrial Hygiene (IH) Module is a web-based application for managing all facets of an Industrial Hygiene program. IH module, enables organizations to have a central repository to store all critical information related to industrial hygiene risks. With this application, users will have the flexibility to establish sampling frequency, generate employee notification letters and most importantly record all details of a sample including comparison against an agent's Action Level and Occupational Exposure Limits.

BENEFITS

Sampling Plan, Event & Data Tracking: Develop Sampling Plans, create Sampling Events and enter Sampling Data to manage IH hazards. Track the sampling results against Occupational Exposure Limits and Action Levels based on Local Regulations, Company Policy and / or Independent Organization.

Sampling Methodologies: Track IH samples based on the various sampling methodologies utilizing Air Monitoring Equipment, Passive Dosimeters, Noise Dosimeters, Radiofrequency and Heat Stress (WBGT Thermometers).

Qualitative Risk Assessments: Perform Qualitative Risk Assessments for all agents based on the severity and frequency of exposure as well as PPE and control measures in place.

Equipment Inventory Management: Organizations have the ability to create an inventory of all sampling monitoring and calibration equipment utilized within the company to link directly to the agent / hazard samples.

Create Action Items: Users have the ability to develop and track Corrective and Preventive Actions items that are related to any sample that is above the Occupational Exposure Level and / or Action Level.

Report Generation: Employee notification reports as well as exception reports, summary reports and sample reports can be generated by staff using specific parameters associated with Sampling Plans, Sampling Events and Samples.

SOLUTION FUNCTIONALITIES

Sampling Plan & Event Management

- Create and Manage Sampling Plans for all Sampling Related Activities
- Create sampling events based on agent, department and / or both.
- Allow External Consultants ability to organize sampling plan and event activities

Industrial Hygiene Sampling Management

- Capture Sampling Methodologies using the following IH Sampling Techniques:
 - Air Monitoring Pumps
 - Passive Dosimeters
 - Noise Dosimeters
 - Heat Stress Monitors
 - Radiofrequency Probes
- Capture Details from Individual Samples and / or Mixtures.
- Link Directly Exposed Employees and / or Similar Exposure Groups to Sample
- Compare Sample Results versus Limits and / or Action Levels
- Capture Controls in place for agent(s)

Sample Breakdown

- Capture Traditional Sample Details
 - 15 Minute STEL / 8 Hr TWA / Task
 - Area / Personal
 - Total Sampling Time
 - Link the Sampling Monitoring and Calibration Equipment from Equipment Bank
 - Sampling Media Used
- Capture Results based on shift exposure representation.
- Validate Sample Result versus Action Levels / Exposure Limits based on Country / Company Organization levels

Qualitative Risk Assessment

- Perform risk assessment to determine level of potential sampling required.
 - Assess hazards based on following ratings:
 - Severity
 - Likelihood
 - Control Measures
 - PPE & Existing Controls in Place
- Link Ratings to Sampling Plans

Correct Action Item Tracking/Alerts

- Capture Corrective and Preventive Actions associated with sampling exposure results
- Due Dates Tracking
- Ownership Assignment by Role, Group, or Individual
- Rules based E-Mail Notification
- E-Mail Reminders & Alerts
- Daily Reports on Tasks

Metrics & Statistics

- Summary of Sample Results per Sampling Activities
- Sample Exposure Breakdown per Sample Event:
 - Number of Sample Results above Over Exposure Limit (OEL)
 - Number of Sample Results between OEL and Action Levels
 - Number of Samples below Action Levels

Tracking PPE & Controls

- Capture appropriate personal protective equipment (PPE) required based on Agent / Hazard and Sample Results
- Establish Applicable Administrative Controls necessary associated with agent(s) / hazard
- Capture Engineering Controls in place

Reports

- Generate Employee Notification Reports
- Create Reports to capture information associated with Sampling Plans
- Generate Reports associated with a specific or group of sampling events.
- Produce reports for each individual sample
- Generate comparison reports on recent sampling details versus historical data.

Trending Charts

- Planned Assessments versus completed assessments.
- Number of Sampling Plans Approved versus Under Review
- Status of Corrective & Preventive Actions as associated with Sampling Results
- Recent Sampling Performed
- Sample Results above / below Action Levels and / or Over Exposure Limits

Sampling Monitoring & Calibration Equipment Inventory Management

- Manage all Sampling Equipment for all Sampling Methodologies (Air, Noise, Heat Stress, RF, etc.)
- Capture all equipment details including:
 - Manufacturing
 - Serial Numbers
 - Model Number
- Manage Annual Preventive Maintenance Calibration Records for all Equipment
- Link equipment from inventory directly to the actual sample.

Module Setup

- Create Look Up Values for:
 - Personal Protection Equipment
 - Administrative Controls
 - Engineering Controls
- Capture Equipment details for:
 - Air Monitoring Equipment
 - Noise Monitoring Equipment
 - Calibration Equipment – Air & Noise
 - Radiofrequency Probes
 - Wet Bulb / Global Thermometers

System Integration

- Integrated with Chemicals Module and Task Management Application
- Integration with Laboratory Information Management Systems (LIMS)
- Interfaces with SAP, Peoplesoft, Oracle HR, and other Human Resources Systems
- Integrated Email Management for Lotus Notes and Microsoft Outlook
- Integrated with Data Mining Tool Microstrategy™ for advanced analysis

Event-Based E-mail Notifications

- Ability to Create E-Mail Distribution List
- Notifications based on Exposure Results
 - Over Exposure Limits (OEL)
 - Above Action Levels but below Limits
- Link Directly to Accredited IH Laboratory Personnel where Sample Media is sent

About ProcessMAP

ProcessMAP Corporation provides enterprise software solutions to enable organizations to better manage environmental, health and safety (EH&S) information, data, and underlying business processes.