



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

Automated Sample Planning Process: With ProcessMAP's automated Sample Planning process, the system automatically establishes minimum annual sampling requirements. Capture Sampling Data against sampling plans to minimize Data Entry. Track 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, Continuous 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. Export Risk Assessments into Sample plans to establish annual plan and sampling frequency requirements.

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. Set alerts and reminders to maintain calibration dates of all equipment types.

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 Permissible Exposure Limits (PEL) 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 and Samples.



SOLUTION FUNCTIONALITIES

Sampling Plan Management

- Create and Manage Sampling Plans for all Sampling Related Activities
- Establish minimum annual sampling requirements through an automated Sample Planning process.
- Allow External Consultants ability to organize sampling plan activities

Industrial Hygiene Sampling Management

- Capture Sampling Methodologies using the following IH Sampling Techniques:
 - Air Monitoring Pumps
 - Continuous Monitoring Pumps
 - Passive Dosimeters
 - Noise Dosimeters
 - Heat Stress Monitors
 - Capture Details from Individual Samples and Panels (which is a collection of established chemicals).
- Link Exposed Employees 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:
 - Hazard Rating
 - Severity
 - Likelihood
 - PPE & Existing Controls in Place
 - Export Risk Assessments to new / existing Sampling Plans

Correct Action Item Tracking/Alerts

- Capture Corrective and Preventive Actions (CAPAs) associated with sampling exposure results
- Due Dates Tracking
- Ownership Assignment by Role, Group or Individual
- Rules based E-Mail Notification
- E-Mail Reminders & Alerts
- Require CAPAs for all samples that exceed Permissible Exposure Limits (PEL)

Metrics & Statistics

- Summary of Sample Results per Sampling Activities:
- Number of Sample Results above Permissible Exposure Limit (PEL)
- Number of Sample Results between PEL 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
- Capture Face Velocity Measurements

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
- Comparison of Planned Sampling required versus Actual Samples taken
- Status of Corrective & Preventive Actions associated with Sampling Results
- Recent Sampling Performed
- Sample Results above / below Action Levels and / or Permissible Exposure Limits

Sampling Monitoring & Calibration Equipment Inventory Management

- Manage all Sampling Equipment for all Sampling Methodologies (Air, Noise, Heat Stress, etc.)
- Capture all equipment details including:
 - Manufacturer
 - 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
 - Wet Bulb / Global Thermometers

System Integration

- Integrated with Chemicals Module and Task Management Application
- Integration with Laboratory Information Management Systems (LIMS)
- Chain of Custody reports sent via email to Lab
- Automated upload of Sampling results from LIMS System
- Import Sampling results from IH Lab without interface
- 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 Microsoft Reporting Services™ for advanced analysis

Event-Based E-mail Notifications

- Ability to Create E-Mail Distribution List
- Notifications based on Exposure Results
 - Permissible Exposure Limits (PEL)
 - Above Action Levels but below Limits
- Capture accredited IH Laboratory Details from analyzed media



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.