



An **EHS** *software platform*

- An integrated system
- Modular and extensive
- Offering better compliance and safety

This Document

This document contains a compilation of the available summary specification sheets for individual modules and components of our **EHSIntegrator** software platform, divided into the following six sections:

1. **Introduction** - overview information, sample menu, and possible adoption strategies
2. **Core Data Modules** – organizational data (buildings, areas, people) and principal profiles
3. **General Function Modules** – functions common to all safety programs
4. **Occupational/Physical Safety Programs** – incident tracking and analysis
5. **Research/Lab Safety Programs** – Bio, Chemical, Rad, and Lab safety
6. **Environmental Affairs** – Hazardous Waste
7. **Cross-Discipline** - Safety Advisor Program

Each specification sheet which is typical only one to two pages long describes a specific module/component, outlining its key elements and benefits. You can go to the **EHSIntegrator** web site link below to get more information, and even documents containing screenshots of the forms for most of the modules and sub-components that might be of interest to you. The web site also has links to presentations we've done on our software platform.

<http://www.ehsis.com>

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Table of Contents

1. Introduction	3
1.1 EHSIntegrator	4
1.2 EHSIntegrator Menu	5
1.3 All Modules/Component	6
1.4 Custom Adoption.....	10
1.5 Adoption Sequence	13
2. Core Modules.....	14
2.1 Core Organization Data	15
2.2 Principal Profile	16
3. General Functional Modules.....	17
3.1 Calendar - Safety and Compliance	18
3.2 Dashboard/Data Metrics	19
3.3 Exposure Risks and Training Requirements	20
3.4 Inventory (Lab Equip, Tanks, Work Shops, etc.).....	21
3.5 Notifications	22
3.6 Registrations/Authorizations	23
3.7 Surveys/Inspections/Assessments and Find-and-Fix	24
3.8 Training and Compliance.....	25
4. Occupational/Physical.....	26
4.1 Construction/Renovation Safety Review	27
4.2 Incident Tracking & Reporting (EHS)	28
4.3 Worker Safety (General Incident Tracking).....	29
4.4 Work Shop Inventory and Safety	30
5. Research/Lab Safety	31
5.1 Lab Signage (Area Safety).....	32
5.1a Sample Lab Sign.....	33
5.2 Biological Safety Program	34
5.3 Chemical Safety Program	35
Chemical Safety Program	35
5.3a Chemical Inventory of restricted chemicals.....	36
5.4 Radiation Safety Program.....	37
6. Environmental Affairs	38
6.1 Waste - Biological	39
6.2 Waste – Chemicals	40
6.3 Waste - Radiation	41
7. Cross-Discipline.....	42
7.1 Safety Advisor.....	43

1. Introduction



Introduction

1.1 EHSIntegrator

- **Integrated EHS Software**
- **For EHS Offices at Medium/ Large Research Universities**
- **“We Have More”**
 - More safety modules
 - More configuration
 - More performance

Safety Programs	Core/General
Research Safety <ul style="list-style-type: none"> • Biological Safety • Chemical Safety • Radiation Safety • Lab Safety 	Core Data <ul style="list-style-type: none"> • Org. Data • Principal Profile
Other <ul style="list-style-type: none"> • Environ. Affairs • Occupational/ Physical Safety 	General Functions <ul style="list-style-type: none"> o Data Metrics o Incidents o Inventory o Survey o Training

- **“We handle More”**
 - 100s of Principals
 - 1,000s of Res. Protocols & Assistants
 - 10,000s Inventory Items & Surveys/Inspections
 - *...and do so wicked fast*

Comprehensive

- 30 modules
- A total of 1,500 forms/reports
- And over 1.5 million lines of code lines

Unique Solution Formula

Its comprehensiveness, modularity and configurability permit each customer a custom adoption plan - in total a “unique solution.”

**Unique Solution Formula =
Safety Programs +
Core/General Functions +
Custom Adoption**

Adopt in chunks, not all at once?

- Adopt a few modules at a time
- Or a vertical Safety Program stack
- And the entire platform over multiple years, if necessary

Productivity/Management

The platform offers such tools as task managers, auto notices, flexible querying/reporting to improve productivity. And tools such as progress reports, data metrics and exception report to improve management.

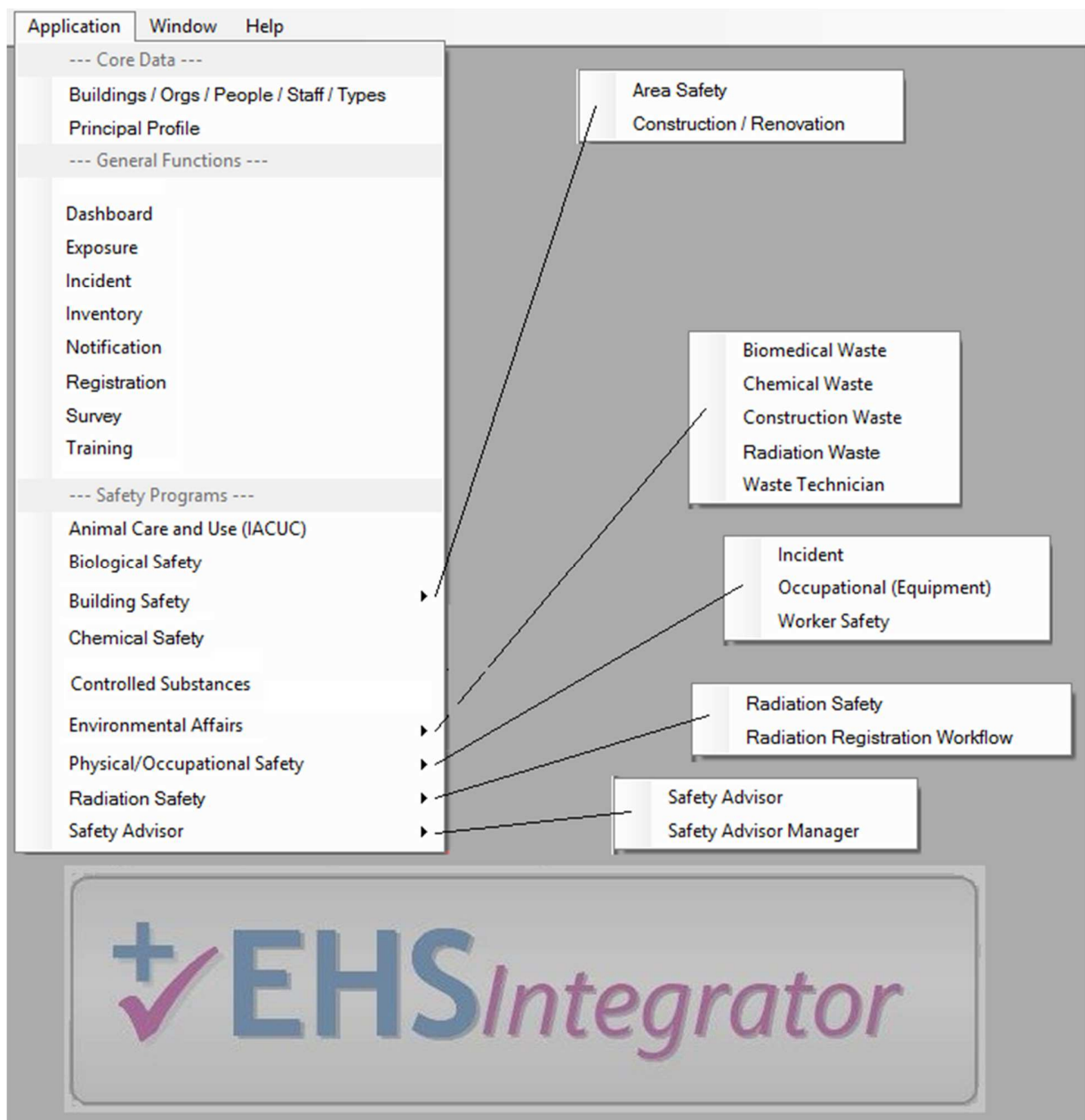
Sample System Benefits

- Improved productivity
- Reduced response times
- Extended workflows
- Greater customer satisfaction
- Better compliance
- Cross-module reports
- Improved querying and analysis
- Management data metrics

1.2 EHS Integrator Menu

The menu below reflects most of the available system modules divided into three sections: Core Data, General Function, and Safety Programs.

At any point in time the actual menu you see will depend on the custom solution implemented for your institution and/or the current point of progress along any such path.



1.3 All Modules/Component

Module/Component	Windows	Web
Core Data		
Organization Data		X
<ul style="list-style-type: none"> - People, Buildings, Building Areas, Org. Hierarchy - User Definable Master Type Lists - Find all assignments of any Person, Building, Area or Organizational Unit anywhere in entire system - Assign and find Building Safety Advisors 		
Principal Profile		X
<ul style="list-style-type: none"> - Enter PIs, Activities, Areas and People - Identify all occurrences of any activity by Campus Area, Building, Room, etc. - Similarly for hazards (<i>see Safety Programs</i>) - Given a person's name, identify what's their role: PI, Assistant, or Contact - Profile Status Manager <ul style="list-style-type: none"> o See PI area, assistant, activity requests o Approve or reject new requests - Web PI Portal <ul style="list-style-type: none"> o Allows PIs enter requests to have Activities, Areas, and People added to their Profiles 		X
General Functions		
Dashboard/Data Metrics		X
<ul style="list-style-type: none"> - Many Metric Categories and Types - Per module and cross module metrics - Thousands of metrics calculated nightly - Monthly snapshots for trend analysis 		
Exposure Risks / Compliance Requirements		X
<ul style="list-style-type: none"> - Define Exposures - Associate Course with Exposure Risks - Track Exposure Risks by Person - Metrics to identify top offenses 		
Notifications		X
Incident Simple (<i>see Occup / Phys Safety Program</i>)		X
Inventory base (<i>used by Safety Programs</i>)		X
Registrations base (<i>used by Safety Programs</i>)		X

Inspections / Surveys / Assessments	X	
- Perform inspections with a mobile device		
- Define surveys and set frequency		
- Associate Survey Types with Activity Types		
- Identify surveys needed and percent completed		
- Find any and all issues for any Survey Type		
- Identify results by Activity Type, Area, PI, etc.		
- Get metrics to identify top offenses		
- Web PI Portal - Find-and-Fix - Issue Resolution		X
o Web view of surveys/results		
o Web entry of resolutions		
Training Compliance	X	X
- Define Courses and set their frequency		
- Associate Courses with Exposure Risks		
- Track training compliance for PI/Assistants		
- Metrics for percent completed by Activity Type		
Safety Programs		
RESEARCH SAFETY		
Biological Safety		
- Lab Safety Equipment		
o Autoclaves	X	
o Clean Air Devices (CADs)	X	
... CAD Chargebacks	X	X
- Metrics / Dashboard	X	
- Registration of Research Protocols		
o Biological Work in General	X	X
o rDNA and Infectious Agent Specific Work	X	
- Safety Inspections + PI Resolutions		
o <i>See Survey features in General Functions</i>	X	X
o Bio Lab Inspection with pre-survey guide	X	
o Clinic Facilities inspections	X	
o EHS Animal Facilities inspections	X	
- Training Compliance	X	X
Chemical Safety		
- Chemical Exposure Monitoring	X	
- Hazardous Chemical Inventory	X	X
- Lab Safety Equipment – Fumehoods	X	
- Metrics / Dashboard	X	

-	Registration of Research Protocols		
	o High Hazardous Chemicals		
	o Controlled Substances	X	
-	Safety Inspections + PI Resolutions	X	X
	o See Survey features in General Functions		
	o Chem Lab Inspection with pre-guide		
-	Training Compliance	X	X
<u>Radiation Safety</u>			
-	Lab Safety Equipment	X	
	o Radiation Meters		
	o Simple PI Meter List		
	o X-ray Devices		
-	Metrics / Dashboard	X	
-	Radioisotope Inventory	X	X
-	Radioisotope Purchasing	X	
	o Radioisotopes		
	o Sealed Sources		
-	Registration of Research Protocols		
	o Radiation Work in General	X	X
	o Isotope Specific Work	X	X
	o PET Center - Radiopharmaceuticals	X	
	o X-ray Devices	X	
-	Safety Inspections + PI Resolutions	X	X
	o See Survey features in General Functions		
	o Rad Lab Inspection with pre-survey guide		
	o X-ray Devices		
-	Training Compliance	X	X
<u>Lab Safety</u>			
-	Green Lab Assessment	X	X
-	Lab Safety Equipment	X	
	o Emergency Washes		
-	Lab Signage (Area Safety)	X	
-	PPE Assessments with Recommendations	X	X
-	Safety Inspections + PI Resolutions	X	X
	o See Survey features in General Functions		
	o Lab and Lab Equipment		
-	Training Compliance	X	X
<u>Physical / Occupational Safety</u>			

-	Construction Plans Safety Review	X	
-	Incident - Simple - see General Functions	X	
-	Equipment Inventory		
o	Tanks Above / Underground	X	
-	Work Shops / Power Tools		
o	Shops/Power Tools Inventory	X	
o	Shop Inspections + Shop Mgr Resolutions	X	X
o	Training	X	X
<u>Environmental Affairs</u>			
-	Biomedical Waste	X	X
o	Scheduling with pre-defined stops/routes		
o	Ad-hoc Clinic / Lab Requests		
o	Pickup / Delivery Metrics		
-	Chemical Waste		
-	Inspection of Construction Waste	X	
-	Rad Waste	X	X
-	Waste Technician Organizer	X	
<u>Cross-Discipline</u>			
-	Safety Advisor Organizer	X	
-	Safety Advisor Manager Organizer	X	

1.4 Custom Adoption

The Custom Adoption part of our Unique Solution Formula refers to the path you follow to implement **EHSIntegrator** to fit your unique needs. A path that will most likely involve our detailed participation to help you identify the best approach to follow when implementing our software platform based on the unique state of your needs and systems.

Even though we say this will be unique for each customer, we also outline some possible general approaches below to give you some reference points for thinking about the matter. We discuss:

- 1) A full blown roll-out
- 2) A vertical stack for a given safety program, and a focus on initially launching either
- 3) Primarily Inspection
- 4) Primarily Inspection/ compliance functionality

Besides the narrative given below you can also look at the Adoption Matrix to see a summary of suitable components for each approach.

1) **EHSIntegrator**

The "**EHSIntegrator**" adoption strategy assumes you want the full-blown platform, but will follow a custom strategy based on any number of unique criteria or conditions

existing at your institution. For example, the desire to work with specific EHS sections that have the greatest current need, or who could benefit most from a better system, or maybe a desire to roll-out widely used functionality to as large an audience as possible in order to get wide spread buy-in quickly.

Sidebar: Custom Configuration / Settings

EHSIntegrator has configurable options at many levels so it can be tailored to your needs, regardless, of whether you are following a custom or general adoption approach.

- System User Roles can be set to only show desired modules or components.
- Or assigned to specific users to control what they can see or edit.
- Particular activities can be matched to people/places to set compliance requirements.
- Many entities have type data tables with a different options.
- New types can be defined for many entities to influence system behaviors.
- All query screens have many options you can set to get custom views/results.
- The global config table has 100+ params that can be used to tweak processes.
- The platform's open architecture allows it be easily interfaced with other systems.

Custom Adoption

General Adoption Strategies (that you can also customize)

The three suggested General Adoption Strategies are described very briefly in separate sections below. For additional information see the Adoption Matrix table below showing suitable items for each strategy.

2) Vertical Stack

The "**Vertical Stack**" adoption strategy assumes you may want to roll-out a vertical stack of **EHSIntegrator** functionality to just one major EHS Safety Program permanently, or just initially before other EHS sections of the department get the same.

For example we have a client that has a department that does nothing by Radiation and because of the systems configurability they are able to see a version of the system that appears to do nothing but service the Radiation Safety Program's needs. Also see the sample presentation "Vertical Stack - Biological Safety" for a description of the benefits of using the system for Biological Safety.

3) EHS Inspector

The "**EHS Inspector**" adoption strategy assumes you initially want to focus on *safety inspections* and the use of a flexible tool for creating related checklists and easily performing the surveys with a

mobile device. As some of the most intensive inspections are often for labs, you might also want to add Lab Signage.

4) EHS Compliance

The "**EHS Compliance**" adoption strategy assumes that you want to initially focus on safety inspections and training compliance.

The core Principal Profile module can be used to identify which labs need to be inspected and what in them needs to be examined. The system will help to ensure any observed issues are tracked from initial identification through final resolution by the parties to which they are assigned.

Training requirements and current compliance can be identified by relating data for Assistants from the core Principal Profile and Training modules and cross-referencing that with data linked between the Exposure and Training modules.

Adoption Matrix table

The Adoption Matrix table below shows suitable components/modules for each of the adoption strategies. Not all items are actual required, so you can further customize the strategies to your own unique needs. Also, the full-blown approach can be implemented over a number of years, to spread-out the effort or cost.

Custom Adoption

Adoption Matrix for full-blown versus suggested selected general adoption strategies

Modules (Components)	EHS Integrator	Vertical Stack - Bio	EHS Inspector	EHS Compliance
Core Modules				
Org. Data (buildings/areas/people)	X	X	X	X
Principal Profile	X	X	X	X
General Function Modules				
Exposure Risks	X	X		X
Training and Compliance	X	X		X
Inspections/Surveys	X	X	X	X
...Find-and-Fix/Resolutions	X	X	X	X
Data Metrics Review	X	X		X
Safety Programs				
Biological Safety Program				
Registrations: General / Specific	X	X		
Biological Equipment	X	X		
Chemical Safety Program				
Chemical Exposure Monitoring	X			
Hazardous Chemical Inventory	X			
Chemical Equipment	X			
Hazardous Chemical Registration	X			
Controlled Substances Registration	X			
Radiation Safety Program				
Registrations: General / Specific	X			
Radiation Equipment	X			
Radioisotope Inventory	X			
Radioisotope Purchasing	X			
Laboratory Safety				
Lab Signage (Area Safety)	X	X	X	X
Lab Safety Equipment	X			
Environmental Affairs Modules	X			
Biomedical Waste	X	X		
Chemical Waste	X			
Radiation Waste	X			
Occupational/Physical Modules				
Incident Tracking	X			
Work Shop Safety	X			

Core Modules

1.5 Adoption Sequence

As indicated above the **EHSIntegrator** software platform allows for an infinite number of adoption options and strategies.

But regardless of what approach you select some of the first things you will likely want to do are described here.

Start With: Organization Data

The core Organization Data module is the one prerequisite to any adoption strategy, as its data is used by all other modules. It stores data about such things as:

- Buildings, Organizations, and People
- Type Data e.g. Activities and Roles

You may want to do an initial data load for this module, and possibly nightly refreshes of it from your other organizational systems (e.g. Human Resources system). You can do so yourself, or have us set such up for you.

Add: Principal Profile

While not a prerequisite for every module, the core Principal Profile module is used by many other modules to assist with data creation and workflows. It holds data on Principals and their:

- Activities
- Work Areas (and related activities)
- Assistants (and related activities)

Then, some: General Functions

Then, you might consider adopting each of the following modules, one at a time, or consider scaling-up and adopting a number of them at once:

- Compliance (Exposure/Training)
- Incident Tracking

Then selected modules/ components from your strategy

- **Survey:** The Survey module permits a wide variety of Assessments, Surveys, and Inspections to be created. Optionally, inspections can be performed with mobile devices and simple surveys can be set for web completion.
- **Or one or more Waste Modules:**
 - Biomedical Waste
 - Chemical Waste
 - Or Radiation Waste

Adoption Module Sequence

Core Data Modules <ul style="list-style-type: none"> • Org. Data • Principal Profile 	Environ Affairs <ul style="list-style-type: none"> • Bio Waste • Chem Waste • Rad Waste
General Modules <ul style="list-style-type: none"> • Equip Inventory • Incident • Survey/Training 	

2. Core Modules

2.1 Core Organization Data

No matter what collection of modules you ultimately adopt from **EHSIntegrator**, one that you can't get by without is **Core Organizational Data** because it's integral to any solution.

The main types of data stored in the Core Organizational Data module are:

- Buildings and Building Areas
- Organizations
- People and Staff
- Type Information e.g.
 - Activities and Roles
 - Hazard Categories/Types
 - Etc.

The Core Organizational Data module can be considered the inner core of any solution as its data is useful to all other modules to provide consisting categorization and reporting. For example, because all modules can make use of the same building, areas, and organizational data, various things such as where activities are performed, hazards are used, or where safety equipment resides can be reported with 100% consistency.

The module also contains data on two key solution-wide type concepts:

Activity Types, which are used to classify risky activities performed by principals and assistants throughout the organization, and in turn can be used to drive system

functionality. Such as, the generation of Surveys of a particular type for Principals based on what Activities they are involved with. You can add new Activity Types when you need them.

Role Types, which are used to identify what roles individuals play within the organization. In certain cases, roles are represented in **EHSIntegrator** in a concrete way e.g. Principals, Assistants, and Contacts. But most roles are user definable values e.g. Emergency Contacts for Labs, Building Architects for Construction or Renovation Projects, and Responsible Principals for Inventory Equipment.

The Core Organizational Data module also contains information for numerous simple data types that are used as lookup references for many entities in various other modules. For example, hazardous chemicals, biological agents, and isotopes.

Elements

Core Module	Related Elements
Organizational Data: <ul style="list-style-type: none"> ○ People and Staff ○ Buildings/Areas ○ Organizations 	<ul style="list-style-type: none"> ○ Most all other modules make use of many of the items in the left column
Type Information; <ul style="list-style-type: none"> ○ Activities and Roles ○ Hazard Categories/ Types 	

2.2 Principal Profile

The **EHSIntegrator** core **Principal Profile** module is designed to hold the following profile information for Principals:

- Types of Activities
- Work Areas
- Work Area Activities
- Assistants
- Assistants Activities
- Contacts for Activities

For each Principal, it allows you identify a master list of their current activities or ones they would like to get authorization for.

It also allows you specify the Building Areas in which they will perform their work and/or store hazardous materials. You can further specify individual types of activities that will be carried out in specific areas.

You can setup specific Activity Types to cascade, so that if they are assigned to a Principal's master activity list they will cascade down to each of his work areas and assistants. *This is likely to be a suitable setting for Chemical activity.*

Assistants and Business Contacts for Principals can also be recorded. Along with the activities they should be associated with them.

Principal Type values can be defined to classify Principals for different purposes e.g. Research Principal Investigators, Animal Facility Managers, Clinic Managers, Grounds

Facility Managers, and Building Managers. Different system functions can be configured to recognize specific principal types for different purposes e.g. the targeting of different surveys or inspections to different principal types e.g. Lab, Animal Facility, Clinic Facility or Building Safety inspections.

And if you do select the Survey module, you can also use it to run reports containing data from this module to see what a Principal does and who helps him get the work done. This information can be used as a pre-survey guide when preparing for inspections.

You also can run management reports that indicate which potentially hazardous activities are being performed in any room, building, or campus area.

If you also adopt the Exposure/Training modules you will be able to check training compliance for Principal Assistants

Also ask us about the optional additional Principal Bio, Chem, and Rad use profile sub-components if those interest you.

Elements

Core Principal	Related Elements
○ Activities	○ Registrations
○ Areas/Activities	○ Surveys/Inspections
○ Assistants/Activities	○ Training Compliance
○ Contacts/Activities	○ Waste

3. General Functional Modules

Presented Alphabetically



3.1 Calendar - Safety and Compliance

The **EHSIntegrator Safety & Compliance Calendar module** is a module awaiting adoption and is intended to provide the ability to record and track safety and compliance tasks. Both once-off, and for recurring items, along with identifying people who should be notified about them.

Deadlines for regulatory tasks could be set with varying frequencies e.g. monthly, quarterly, yearly, or every five years, etc. They can also be associated with various individuals with different positions spread across multiple departments throughout the organization.

The Calendar is intended to be used as a compliance tool that can assist EHS in making sure no required tasks go unaddressed.

Metrics & Management

The Calendar’s Schedule Generator could be set to create new tasks for reoccurring events for any given date range based on task frequencies removing the need for anyone to manage such items.

An optional adoption of the Notifications module could be setup to dovetail well with the Calendar module, so individuals are notified about specific tasks that are coming due, or which are past due.

Elements

Calendar Module Elements	Optional Related Elements
<ul style="list-style-type: none"> • Tasks • Schedules • Schedule Generator 	<ul style="list-style-type: none"> • Notifications to ...task signatories ...people with other roles



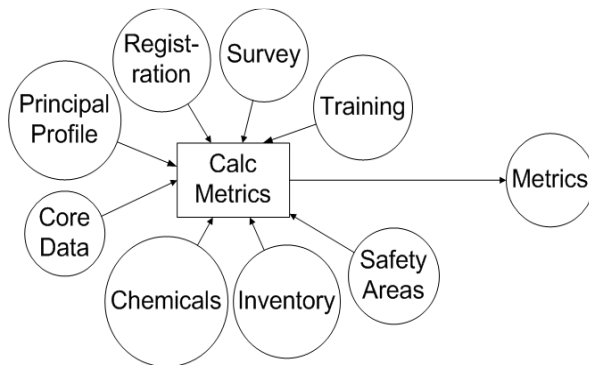
3.2 Dashboard/Data Metrics

The **EHSIntegrator Dashboard module** compiles metrics for all other modules, as of 2012 it had:

- Twelve categories and 130 types
- 10,000+ metrics (based on usage)
- Raw count values
- Compliance ratios
- Metrics compiled nightly
- Data exportable for presentations

The module is designed to permit the easy addition of new metrics and as the platform itself evolves, so do the available metrics.

Modules Feeding Metrics (Sample)



Categories/Types/Metrics (Sample)

Metric Category	Metric Type	Metric Name
Core	Building	Buildings
Core	Lab SqFt	Organization
Core Profile	Organization	Principals
Core Profile	Organization	Activities
Survey Results	Top Ten Issues	by Survey Type
Waste Biomedical	Deliveries	by Container Type
Waste Biomedical	Pickups	by Container Type

Specific Metrics (Sample)

- **Core Organization Data Counts** - number of Buildings, Org. Units, and People
- **Principal Profile Counts** - number of Principals, Assistants, and activities
- **Survey** compliance statistics
- **Training** compliance statistics
- **Hazardous Waste** - number of pickups or quantity by Department, Building or Principal

Data Exportable for Presentations



Management Benefits

- Auto metric calculation saves EHS weeks
- More frequent fine grained metrics
- Cross-module compliance verification
- Spot issue trends to reallocate resources
- Use evidence of workload increases to lobby for additional resources



3.3 Exposure Risks and Training Requirements

The **EHSIntegrator Exposure module** provides the ability to define Exposure Types that represent specific work risks, and track people who have such exposure risks.

The main elements of the Exposure module are:

- 1) An Administration section which allows an Administrator to define Exposure Types, and associate them with
 - a. Activity Types
 - b. Job Positions
 - c. Departments
- 2) A Review section that allows you see the exposure risks recorded for any individual and any assessments that information was gathered through.

If you also adopt the Training module and pair your training courses with specific exposure types along with tracking safety class attendance you can use the combination of that data to report on training requirements and compliance for all assistants.

The Notifications module could also be setup to dovetail well with such data, so that, notifications get sent out to individuals about training when it's time to attend.

Metrics & Management

The combination of exposure/training information is used in the Principal Profile module to show training compliance for a Principal's assistants, and in the Dashboard module to report summary compliance statistics.

The system permits one to identify total Training Requirements for various Exposure Risks associated with Principal Assistants and what percentage of them are in compliance.

Elements

Exposure	Related Elements
<ul style="list-style-type: none"> • Exposure Risks/Types by position, department, or activity • Peoples Exposure Risk Assessments 	<ul style="list-style-type: none"> • Training - course for various Exposure Risks • Notifications - training coming due



3.4 Inventory (Lab Equip, Tanks, Work Shops, etc.)

The **EHSIntegrator Inventory module** provides the ability to track many common details of various items of Safety Equipment, such as:

- **Standard attributes** -- serial number, manufacturer, model, and item codes
- **Equipment specific attributes** – type information and equipment specific attributes
- **Location** -- building, room, and area qualifier
- **User defined roles** -- owners, users, etc.
- **User definable activities** -- inspections, servicing, etc.

By giving all pieces of equipment common general attributes, searches for all equipment in a particular area, for a particular Principal, and/or specific person can be easily performed. Also, it makes it easier to perform various tasks for them.

Custom attributes are added for each separate type of inventory implemented on our platform. The table below lists ones already in-use and others awaiting adoption.

Metrics & Management

Equipment list reports identifying all equipment by Make, Mode, Class, Room/Lab, Building, Campus Area, and Principal. Lists of equipment on which some activity was performed during a specific range of dates. Counts of equipment by campus area, building, etc. can be achieved.

Elements

Attribute Sets	Equipment Types	Related Elements
<ul style="list-style-type: none"> • Standard equipment attributes • Custom equipment attributes • Location • User definable roles • User definable activities 	<ul style="list-style-type: none"> • Lab Safety - implemented: Autoclaves, Biosafety Cabinets, Emergency Washes, Radiation Meters, Sealed Sources, X-rays • OTHER - implemented: Tanks and Tank Components Above/Below Ground and Work Shops 	<ul style="list-style-type: none"> • Core ...Buildings ...People • Core Profile ...Principals • Surveys ...Pre-inspection Guides



3.5 Notifications

The **EHSIntegrator Notification module** can be adopted as a core service module in our software platform, where it can be leveraged by other modules to send notifications to EHS Staff, your organizational partners, and/or customers.

For example:

1. EHS Staff would be notified about new requests by Principals through their Web Profiles.
2. Notifications about issues found during Surveys/Inspections can be sent to Principals.
3. EHS Staff required to review and comment on Construction/Renovation design plans can be notified about new plans when they arrive.

The Notification module allows the setup of meta-data tags for notification subject text for different Notification Types which the system can replace with specific data values taken from the database before the system sends any notifications.

It's also a place you can go and see any past notifications to verify whether they were appropriately sent out, (whenever a doubt about such is raised).

Metrics & Management

See all past notifications by type or date range and get counts of them.

Elements

Notification	Related Elements (Sample)
<ul style="list-style-type: none">• Notification Types• Specific notifications• Notification lists by type and/or date range	<ul style="list-style-type: none">• Notifications about new item requests by Principals• Survey issues/responses requirement notifications• Construction Renovation Review comment notification



3.6 Registrations/Authorizations

The **EHSIntegrator Registration module** allows the definition of different types of registration and the recording of the following common elements and attributes for them:

- Registration type and a uniquely identifying registration number or code
- Research overview, reviewer comment, and anticipated start/end dates of work
- Activity types of the research, principal and associated work areas (labs) and assistants
- Chronological notes pertaining to the application
- Summary information about regulatory agency required permits
- Standard operating procedures
- Role information for other people (additional signatories, co-principals, etc.)

Meta data can be used to control which of the available common elements are enabled and should be shown for any given registration type.

The provision of common registration elements has two important purposes: 1) They allow for the common reporting and listing of all registration across all Registration Types for any given Principal. 2) They leave little to be implemented when creating new simple registration types.

We've also extended this module to handle Registration Type specific data for such types as, Bio Agents work, work involving Controlled Substances, Radiation Isotope work, and X-ray use.

Metrics & Management

- See renewals coming due and create new versions that can be edited and resubmitted.
- List all applications for all registration types for all Principals.

Elements

Registration Module Elements	Related Elements
<ul style="list-style-type: none"> • Meta-Data to configure registration types • Research Protocol Registration Types: Biological General and Specific, High Hazardous Chemicals, Controlled Substance Use, Radioisotope General and Specific, and X-ray Use. 	<ul style="list-style-type: none"> • Notifications: Application status, and Renewals • Lab Signage cross-checking based on approved registrations is implementable



3.7 Surveys/Inspections/Assessments and Find-and-Fix

The **EHSIntegrator Survey module** provides the ability to create questionnaires/checklists to perform a variety of safety and compliance assessments, inspections, and surveys.

Questionnaires can be of the simple Yes/No checklist variety, or be of a more complex nature, where each question has a required, default, and set of optional answers. Specific answers can also have a default risk rank associated with them.

Inspections can be completed in the field using mobile devices and the results emailed to the person being surveyed before leaving their work location, (if such is desired). Notice of deficiencies can also be routed to them, and they can enter their response online using a web browser, (rather than relying on email exchanges). With all issues and responses being stored in the main database you can prove to any visiting regulatory authority that all issues found were addressed without you having to dig through paper records or emails.

With just the Core Organization Data module, Surveys can be done for such things as Building Safety, Labs, Satellite Accumulation Areas, and Construction Sites.

However, if you also adopt the core Principal Profile module, you can drive research related inspections by the various activities Principals perform in various work areas, and see who remains to be surveyed within any particular survey period for any give Survey Type. Also, besides being able to associate deficiencies with the Primary Principal being inspected, one can associate them with specific areas, other Principals sharing that area, or even other people.

Metrics & Management

- See who’s left to be inspected in the current inspection cycles.
- Review results of past inspections by campus area, building, Principal, etc.
- Check outstanding deficiencies by a number of criteria across survey types.

Elements

Survey Module Elements	Related Elements
<ul style="list-style-type: none"> • User definable questionnaires • Dynamic generation of survey requirements • Work flow tracking for surveys and issues • Web facility for PIs to respond to deficiencies 	<ul style="list-style-type: none"> • Buildings and Building Areas • Principals, their activities and work areas



3.8 Training and Compliance

The **EHSIntegrator Training module** provides the ability to track people who have enrolled and participated in EHS related training courses.

The main elements of the Training module are Course Types, Courses, Offerings, Enrollments, and Students. Each of these elements can be queried on a range of criteria from data ranges to partial names.

Another module that dovetails extremely well with Training is the **Exposure** module where Exposure Types can be set to be directly added to individuals based on their assignments, departments, and for researchers any Activity Types assigned to them. In the latter case, when Assistants are added to a Principal’s Profile with associated Activity Types the system can be set to indicate if they are up-to-date with their training requirements.

The Survey module is also capable of making use of that data to show training compliance for Assistants when you run pre-inspection guides.

Metrics & Management

- Total course given, and total number of people trained.
- Percentage trained/untrained for each identified training requirement

Elements

Training Module Elements	Other Related Elements
<ul style="list-style-type: none"> • Course Types • Courses • Offerings • Enrollments • Students 	<ul style="list-style-type: none"> • Exposures\Compliance Requirements ...by Department ...by Position ...for Activities • Survey\Inspections ...pre-survey guides – training status • Dashboard\Data Metrics ...Offerings Given ...Enrollments by Location by Dept, etc.

4. Occupational/Physical



4.1 Construction/Renovation Safety Review

The Construction/Renovation module is intended to track the receipt of project design plans received at the EHS office that need a safety review.

The module allows you track who's required to comment on the drawings, who has commented on them and what they said. Along with identifying non-EHS individuals who have roles on that project (architects, construction manager, etc.) that need to receive the EHS comments and respond to them. Email notifications to all parties can be generated from within the application itself.

Optionally, on receiving the design plans the building or buildings to which they relate can be recorded along with a description of the work and its total cost. The design/construction phase to which the design drawings pertain can be recorded. The total cost and/or overview description for the work can be entered, along with the number of drawings submitted, and any reference numbers they have.

Metrics & Management

A variety of dates can be tracked for each set of drawings received (Notification Date, Blueprints Received, Review Due Date, Review Date, Work Start Date, and Work End Date) and the projects table can be queried for all projects in a given range of dates matching any specified period.

Elements

Elements	Related Elements
Constructions ...Projects ...Phases ...EHS Safety Comments ...External Individuals Project Roles	Core Organization Data ...Buildings ...People



4.2 Incident Tracking & Reporting (EHS)

The **EHSIntegrator Incident Report Tracking module** provides the ability to track details of incidents throughout the organization of specific interest to EHS.

The Incident detail form permits the recording of the incident date, time and location (building and optionally room). Additional sets of attributes that can be maintained about incidents are Description, People Affected, EHS Staff Responders, Others Involved, Actions Taken, Outside Notifications, and Follow-up Actions.

Also, for each incident, whether it involved an injury or exposure can be recoded, along with whether emergency equipment such as Eyewash, Emergency Shower, and/or Fire Extinguisher was used.

The Worker Safety module is a more extensive and is intended to track all accidents/incidents throughout the organization, and not just ones of specific interest to EHS.

Metrics & Management

The standard query form permits you to compile lists of incidents with a date range, by Incident Type, Material Type, Room Function, or Area.

The Report Wizard allows you select specific values from the following attribute sets to filter incidents by:

- Incident Type
- Building
- Department

You can also see five year trends for both fiscal and calendar years.

Elements

Incident Elements	Related Elements
<ul style="list-style-type: none"> • Incident Classification • People Affected • Staff Involved • Actions Taken 	<ul style="list-style-type: none"> • Core Organization Data ...Building ...Personnel ...Organizations



4.3 Worker Safety (General Incident Tracking)

The **EHSIntegrator Worker Safety module** (available for adoption) provides the ability to track details on employee injuries and illnesses, so that you can analyze that data to prevent future incidents, along with preparing reports for appropriate authorities.

This module comes in both standard and advanced modes. The standard mode allows you specify all the details that that need to be recorded in order to complete OSHA 300 forms. The advanced mode allows you do that and specify more details so you can do additional analysis.

In either mode, the system is capable of producing Excel templates for OSHA Form 300, 300A, and 301. And any incident can be marked for Heighten Privacy at injured party’s request, so that their details are not posted as part of OSHA onsite reports.

In standard mode, details about the injured party, emergency treatment facility, descriptions of how and where the incident occurred, and who reported the accident can be recorded, along with various values to classify the incident per OSHA instructions.

In advanced mode, details can be added for injured party, roles (Caller, Report Writer, and Supervisor), payments and totals by type, property damage, police involvement, periods employee was away from the job and/or on restricted duties by type, and chronological notes.

Plus, the ability to classify the incident by values from user definable lists for Body Parts, Causes, Injury Illness Type, Note Type, Payment Type, Period Type, and Status Type.

Metrics & Management

In Advanced mode, the ability to produce injury trend reports by Body Parts, Causes, Injury Illness Type, Note Type, Payment Type, and Period Type for one or more Departments is available. In either mode, you can run OSHA 300 reports.

Elements

Standard Elements	Advanced Elements
<ul style="list-style-type: none"> • Incident recording • Basic reporting • OSHA Reporting 	<ul style="list-style-type: none"> • Three times as much detail per incident • Lists for body parts, causes, and type of Injury Illness, notes, payments, and work/restricted periods. • Analysis and trending reports



4.4 Work Shop Inventory and Safety

The **EHSIntegrator Work Shop Inventory module** allows the tracking of your organization’s work shops and the power tools in them that may expose people to specific hazards. For any power tool, the following attributes can be recorded:

- **Model** – Make, Model and Class
- **Power** – Electric, Voltage, Current, Horsepower, Pneumatic
- **Controls** – Manual hand/foot, Robotic/CNC
- **Plug** – Connected, Grounded, Hardwired, Disconnect Available, Lockable
- **Potential Hazards** – Spinning Parts, Rotating Parts, Pinch Points, Cutting / Sharp Parts
- **Damaged or Missing Parts** – Found, Removed from Service, Plan for Repair, Description
- **Emergency Stop** – Present, Button, Switch, Foot, Other
- **Guarding/Shielding** – *User Definable Types*, Potential Needs
- **Other Protective Measures** – Pushsticks, Splitter, Pawls, Clamps, Jigs, Tool Rest, Vises
- **File References** – Associates Photo Images

In addition, one can also specify an overall classification for each Work Shop based on the overall exposure risk to users of that shop. And for each shop, whether Employees, Undergraduates, and/or Graduates can use it, and whether it is used for Course Work.

Metrics & Management

Lists of tools of specific types, or those with specific attributes. Identify shops that are accessible to Undergraduates, Graduates, and/or Employees.

These lists can also be exported to Excel along with counts of the various types of guarding/shielding used for each tool, so that additional reporting and analysis can be performed.

Elements

Shop and Tool Attributes	Power Tool Attribute Sets
<ul style="list-style-type: none"> • Work Shop classification and usage • Power Tool attribute sets 	<ul style="list-style-type: none"> • Model, Power, Controls, Plug, Hardwired • Potential Hazards, Guarding/Shielding

5. Research/Lab Safety



5.1 Lab Signage (Area Safety)

The **EHSIntegrator Lab Signage (Area Safety) module** allows the recording of various exposure risks that users might encounter in Labs and related support areas and enables you to print Signage about them.

For each lab or area, data on the following items can be recorded:

- **Hazard Categories/Types** – categories, risk levels, and important considerations
- **Related Reprint Areas** – additional doors\entrance ways to space that also need signs
- **Roles** – identify primary researchers, lab supervisors, emergency contacts, etc.
- **Emergency Response Guidelines** – response guidelines for general or specific activities
- **Emergency Equipment** – what emergency equipment exists and where its located
- **Hazard/Safety Symbols** – both data driven and user selectable symbols

Metrics & Management

Get Safety Area/Lab list reports by Building, Campus Area, Functional Area Type, Particular Hazard Category, Principal, or People with specific area related roles.

Metrics identifying the number of labs/areas by location, building, and/or hazard.

Elements

Hazard Attributes	Related Optional Elements
<ul style="list-style-type: none"> • Biological – yes/no, plus risk rank and specific agents • Chemical – yes/no, plus risk rank and specific hazards • Radiation – yes/no, plus risk rank and specific isotopes • Classes of hazard symbols -- user definable types • User configurable rules to drive symbol selection 	<ul style="list-style-type: none"> • Principal Profiles • Hazard Inventories • Equipment Inventory

Sample Lab Sign on Next Page.



5.1a Sample Lab Sign

COLL		COLLEGE Laboratory	
Police, Fire, Ambulance	911	Security	203
Environmental Health & Safety	203	Facilities Customer Service	203
Principal Investigator	Work Phone	Lab Manager (Other)	Work Phone
Emma Boule	123-6788	Michelle Smith	345-3456
Johnny Watson	234-1234	Steve Gates	456-3456
EHS Safety Advisor:		Work Phone:	



Other Potential Hazards



Entrance Requirements



Use Restrictions



Safety Equipment Available



***** Laboratory Access Restricted to Authorized Personnel Only *****



5.2 Biological Safety Program

The **EHSIntegrator Biological Safety Program module** contains an Organizer that can provide access to the following sub-components:

- **Research Protocol Registrations:** General and specific *rDNA and Infectious Agents**
- **Surveys:** Bio Labs, Clinic and Animal Facilities
- **Inventory:** Autoclaves and Clean Air Devices
- **Animal and Clinic Facilities:** Managers/Directors, Activities, Areas, and other Roles
- **Principal Profile:** Bio Lab PIs, Clinic Managers/Directors, and Animal Facility Managers

*When it's time to renew or update a registration, the prior one can be copied, versioned, and then edited. This permits two versions of any registration to exist at one time, to reflect an authorized version, and one that is under review.

All of the biological sub-components above are all optional adoptions, so the ultimate composition of the Biological Safety Program Organizer will depend on which of them you adopt.

For more about surveys, see the Survey specification sheet for that module.

Metrics & Management

View metrics about all aspects of the Biological Safety program listed above, such as counts for, Animal Facilities, Clinic Facilities, Activity Types, Work Areas, Autoclaves, Clean Air Devices, Bio Principals, Bio Labs, etc. You can also list all registrations of any type, for all types, or all those for a given Principal.

The Biological Safety Organizer makes it easy for Biosafety staff to access all related features.

Elements

Biological Module	Leveraged From Other Modules
<ul style="list-style-type: none"> • Registrations: General and <i>rDNA and I.A.</i> • Animal/Clinic Facilities: Facilities and Managers 	<ul style="list-style-type: none"> • Core Principal Profile: Biological Principals, Work Areas, Assistants and Activities • Inventory: Autoclaves and Clean Air Devices • Surveys: Bio Labs, Clinic, and Animal Facilities



5.3 Chemical Safety Program

Chemical Safety Program

The **EHSIntegrator Chemical Safety Program module** contains an Organizer that can provide access to the following sub-components:

- **Registration of Protocols for High Hazardous Chemicals**
- **Chemical Inventory:** Designed to do periodic inventories of restricted chemicals
- **Surveys:** Chemical Lab Inspections
- **Training:** Chemical Training Compliance Tracking
- **Lab Equipment Inventory:** Fume Hoods
- **Principal Profile:** Principal Investigators making use of chemicals, in what locations, and who works for them

All of the sub-components above are all optional adoptions, so the ultimate composition of the Chemical Safety Program Organizer will depend on which of them you adopt.

Metrics & Management

- Training requirements for anyone working with chemicals can be identified and tracked.
- All Principal Investigators working with hazardous chemicals can be identified.
- Report on quantities of chemicals or categories of such by building or department.
- The Chemical Safety Organizer makes it easy for Chemical staff to use related features.

Elements

Chemical and Related Modules	Core Data Modules
<ul style="list-style-type: none"> • Registration: Research Work With Highly Hazardous Chemicals • Hazardous Chemical Inventory • Survey: Chemical Lab Inspections • Training: Chemical Compliance • Data Metrics: Chemical Users, Surveys Performed, People Trained 	<ul style="list-style-type: none"> • Core Organization Data: Chemical Types, Hazardous Properties, Quantity Limits For Purchasing And Inventories • Core Principal Profile: Chemical Principals, Work Areas, and Assistants



5.3a Chemical Inventory of restricted chemicals

Within **EHSIntegrator** the **Core Organization Data** module and the **Principal Chemical Usage Profile** sub-component play important roles in supporting Chemical Inventories.

In the Core Organization data modules you can define chemical categories that need to be tracked for regulatory compliance or safety purposes, such as: Carcinogens, Controlled Substances, Corrosives, Cryogens, Flammables, Pyrophorics, Reactives, and Reproductive Toxins.

Within each category individual chemical types can be declared, along with their physical and hazard characteristics. Each type can also be tagged with the name of any restrictive or regulatory lists that makes it of interest to EHS. And business rules can be defined for inventory purposes e.g.

- 1) Building Limits
- 2) Threshold % requiring reporting
- 3) Default inventory measure
- 4) How inventory needs to be entered: yes/no value, or with a count, or in specific quantities with an assigned measure

The **Principal Chemical Usage Profile** sub-component is intended to identify a master list of what chemical types a PI has, and in what areas he uses or stores them. This data is a feed to Chemical Inventory. *(All of which is largely transparent to the PI.)*

The **Chemical** module is where periodic Chemical Inventories are recorded. They can be entered by PIs using a web browser and reviewed by EHS staff using their Windows application. EHS can use the inventory list query screen to search for all

Principals who've reported inventories, as well as seeing the specific items they've reported. This can be done by building, room, and/or safety advisor.

Metrics & Management

The number of principals reporting chemicals can be identified, along with the amount of each chemical type they use.

The quantities of chemicals in total, or by building can be reported, and any exceptions to building limits can be identified.

The system can be queried to identify where specific chemicals are used/stored.

Principals who are required to enter inventories are notified electronically.

Elements

Modules
<ul style="list-style-type: none">• Core Organization Module: Chemical Categories and Types. Physical and Hazardous characteristics. Inventory Business Rules.• Notifications Module: Notices about inventory due and past due• Chemical Module: Hazardous Chemical Inventories.



5.4 Radiation Safety Program

The **EHSIntegrator Radiation Safety Program module** contains an Organizer that can provide access to the following sub-components:

- **Registrations:** General Biological, and Isotope Specific, Radiopharmaceuticals, and X-ray
- **Surveys:** Rad Labs
- **Radioisotope Inventory and Purchasing**
- **Radiation Waste**
- **Lab Equipment Inventory:** Radiation Meters, Sealed Sources, and X-rays
- **Principal Profile:** Rad PIs, Areas, Assistants, and Activities

All of the sub-components above are all optional adoptions, so the ultimate composition of the Radiation Safety Program Organizer will depend on which of them you select.

In the case of registrations, when it's time to renew or update one, the prior one can be copied, versioned, and then edited. This permits two versions of any registration to exist at one time to reflect real life where a Principal can have both an authorized version and one under review.

The purchasing component is intended to allow the setting of individual isotope purchase and inventory limits for each individual Principal Investigator as well as the Organization as a whole. That data can then be used by the EHS staff to validate any planned isotope purchases.

Metrics & Management

The production of a wide range of metrics covering such things as the total number of all registrations, the amount of each type, quantities of various types of inventories, etc. The Biological Safety Organizer makes it easy for Biosafety staff to access all related features.

Elements

Radiation and Related Modules	Core Data Modules
<ul style="list-style-type: none"> • Registration: Radiation General and Isotope Specific, plus X-rays • Surveys: Rad Lab Inspections • Radioisotope Inventory and Purchasing • Lab Equipment Inventory: Radiation <i>Meters</i>, Sealed Sources, and X-ray Devices • Radiation Waste 	<ul style="list-style-type: none"> • Core Organization Data: Isotope Types, Properties, Quantity Limits For Purchasing And Inventories • Core Principal Profile: Principal Investigators, Their Work Areas, and Assistants

6. Environmental Affairs



6.1 Waste - Biological

The **EHSIntegrator Waste Biological module** provides the ability for Environmental Services to set up different schedules/routes for biological waste pickups and container deliveries. Individual buildings can be categorized into Waste Groups that allows the definition of which Schedule Type should be used to service them. Users can also enter ad-hoc requests for waste pickups and container deliveries via their web browsers that can merge on schedules with pre-defined stops.

Schedule setup allows the optional assignment of a specific service person or the designation that an EHS staff person should service the route. Whether the schedule should be performed daily, or on a particular day of the week, and which building areas (labs / clinics) should be visited. Along with which ones should have minimum inventories of specific biological waste container types. Schedule Types can also be configured to display any set of the following columns: Building Area, Clinic / Lab type flags, Principal, Contact, Inventory Min Qty, Delivery Qty, Delivered Qty, Pickup Qty, Picked-up Qty, % Filled, Treatment, Service Time, Cart Number, Disposal Building Area, Request Line Comment, and Schedule Comment.

Waste Groups also allow the definition of which specific Container Types should be selectable by users within individual buildings based on whether they are making a clinic or lab request. The Waste Group also allows the definition of user oriented instructions for ad-hoc requests.

Ad-hoc user requests can be entered with Principal and Contact information for each building area along with details about specific container types to be picked-up or delivered.

Metrics & Management

Metric and rollup summary waste volume reports are available by building, area, and principal.

Monthly and yearly comparison reports to show trends in waste production.

Elements

Waste - Biological Module Elements	Related Elements
<ul style="list-style-type: none"> • Schedule Types • Waste Groups • Ad-hoc User Requests • Container Types 	<ul style="list-style-type: none"> • Core Organization Data ..Building Areas ..Principals ..Staff



6.2 Waste – Chemicals

The **EHSIntegrator Waste Radiation module** is intended to provide functionality to assist waste services with managing request, waste pickup schedules, and tracking of waste in inventory, and final disposition.

PIs and other Lab workers will be able to place waste pickup requests online via a web browser. They can specify the number of containers, the quantities they contain, and any special hazards associated with them.

You will also be able to declare what constitutes highly hazardous chemical waste, and flag such.

It will allow the generation of pickup schedules.

Metrics & Management

Metric and rollup summary waste volume reports will be available.

Elements

Waste - Chemical Module Elements	Related Elements
<ul style="list-style-type: none"> • Waste Pickup Requests • Waste Items • Pickup Schedules • Special Hazards • Highly Hazardous Chemical Waste 	<ul style="list-style-type: none"> • Core Organization Data <ul style="list-style-type: none"> ..Building Areas ..Principals ..Staff



6.3 Waste - Radiation

The **EHSIntegrator Waste Radiation module** is intended to provide functionality to assist waste services with managing request, waste pickup schedules, and tracking of waste in inventory, and final disposition.

PIs and other Lab workers can place waste pickup and container delivery requests online via a web browser.

It allows the generation of pickup/delivery schedules.

And then allows for the consolidation of individual waste pickup items meeting common acceptable criteria into bulk waste packages, in which the combined activity can be tracked before eventual disposal.

It also allows for the recording of final disposition of all items.

Metrics & Management

Metric and rollup summary waste volume reports are available.

Elements

Waste - Radiation Module Elements	Related Elements
<ul style="list-style-type: none"> • Waste Pickup/Delivery Requests • Waste Items & Bulk Waste Packages • Pickup Schedules • Inventory Waste Activity • Final Disposition 	<ul style="list-style-type: none"> • Core Organization Data • ..Building Areas • ..Principals • ..Staff

7. Cross-Discipline



7.1 Safety Advisor

The **EHSIntegrator Safety Advisor module** is an optional program for organizations who cross-train their safety advisors in multiple disciplines so that Principal Investigators have only one person to initially contact at EHS for any of their research safety and compliance needs.

This approach is being adopted as a best practice by many organizations as Principals appreciate the simplified lines of communication with EHS and the ability to build a closer and more familiar relationship with their EHS contact, which makes them more comfortable asking about possible issues and/or seeking help.

The organizer for the Safety Advisor module provides quick access to many other modules within the system that are commonly used by Safety Advisors, and in many cases, pre-filters their information for the advisor using the system. Some samples of such access are:

- Principal Profile - pre-filtered Principal list for those assigned to Safety Advisor
- Survey – shows surveys initiated by the current Safety Advisor
- Core Organization Data – buildings and areas in general, and advisor assigned buildings

NOTE: The EHSIntegrator also has a Safety Advisor Manager Organizer that packages functionality of direct interest to managers of the Safety Advisor Program.

Metrics & Management

- Safety Advisors can see and report on the buildings assigned to them
- They can also see and report on the Principals to which they have been assigned
- Advisors can see and report on which of their PIs are:
 - Due for surveys
 - Have surveys with deficiencies that have no responses
 - Have surveys with responses for deficiencies which need reviewing

Elements

Safety Advisor Module Elements	Related Elements
<ul style="list-style-type: none"> • Principals Safety Advisors are assigned-to • Buildings they are assigned-to • Surveys they initiated by status 	<ul style="list-style-type: none"> • Core Organization Data - Buildings • Principal Profile • Surveys started by Safety Advisors