

Non-Credit Registrations

How to Track and Report on All Campus Activity

Session 6107
Jr. Ballroom A3

NC STATE UNIVERSITY

Your Presenter

- Jack Foster
- IT Director for Non-Credit Applications
- Enterprise Application Services, OIT
- NC State University

Overview

- NC State has built a non-credit activity registration system to track and report on non-credit courses and outreach programs that students, faculty & staff are participating in on campus.

Agenda/Contents

- Requirements for Non-Credit Application
- How to Build the Non-Credit Application
- Development Tool – aPaaS - Mendix
- Scope & Functionality
- Time Line
- Current & Future Direction
- Challenges
- Screenshots
- Demo

NC State University

NC State reaches more than 600,000 participants through outreach, extension and continuing education programs, in addition to profession development for more than 8,000 employees.



-Undergrad: 24,000

-Graduate: 10,000

Requirements?

- Use by Students, Faculty, Staff and External Participants
- PCI Compliant for Credit Card Payments
- Decentralized Course Administration
- Accelerated Timeline
- Non-Credit Course Catalog
- Centralized Reporting to UNC GA and Other Agencies

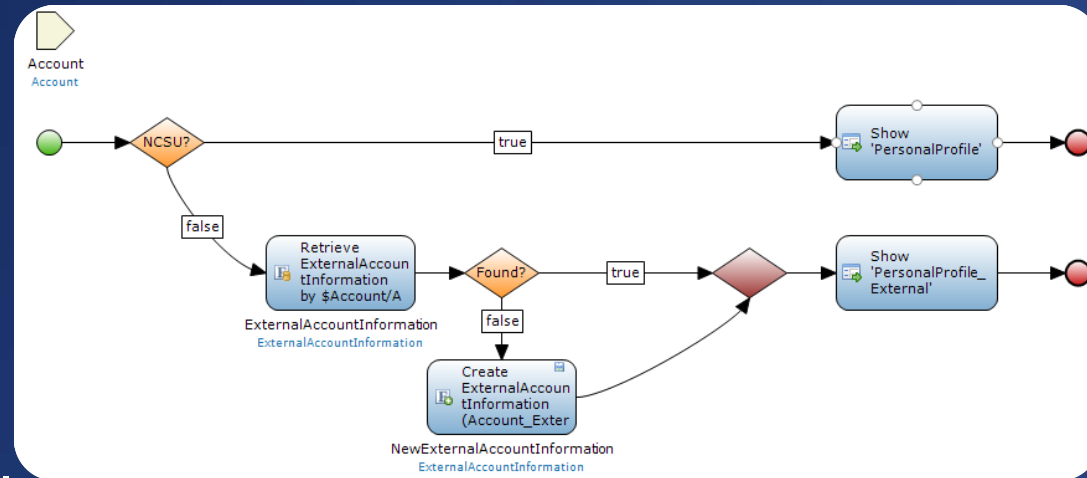
How to Build the Non-Credit System?

- PeopleSoft Campus Solutions or HR eLearning
 - Non-Verified Data
 - Number of Course Administrators
- Out for RFP, Package Solution
 - Too Expensive
 - Still be Highly Customized
- Internal Tool, PHP/Java
 - Department Skill Set
 - Maintenance / Infrastructure
 - Timeline
- **Application Platform as a Service – aPaaS**
 - **Cloud Based**
 - **Rapid Development**

Mendix



- Rapid Development
- Cloud Environment
- Scaling Application
- Visual Modeler
- Easy Integrations
- Upgrade on Any Schedule
- App Store



<https://www.mendix.com>



Agile Project
Management



Visual App
Development



1-Click
Deployment



Central App
Management



APIs &
Integration



Full
Runtime






Public / Private
On-Premise
Hybrid






App
Store

2014 HEUG Midwest Regional



DEPLOYMENT PACKAGE NAME	VERSION	DATE	UPLOADED BY	EXPIRY DATE
 Main line-1.0.0.2591.mda	1.0.0.2591	Mon, 26 Sep 2016	Shawn Madey	Details Deploy
 Main line-1.0.0.2577.mda	1.0.0.2577	Wed, 21 Sep 2016	Jordan Boyle	Details Deploy
 Main line-1.0.0.2572.mda	1.0.0.2572	Wed, 21 Sep 2016	Jordan Boyle	Details Deploy

Environments

Test 	Name: Main line-1.0.0.2591.mda Version: 1.0.0.2591 Runtime: 5.21.5	URL Details Transport to Acceptance
Acceptance 	Name: Main line-1.0.0.2591.mda Version: 1.0.0.2591 Runtime: 5.21.5	URL Details 🔒 Transport to Production
Production 	Name: QA-to-RackSpace-1.0.0.2478.mda Version: 1.0.0.2478 Runtime: 5.21.5	URL Details

User Management

Participants Import Jobs Everyone Is New

[Account, from database]

First Name ≈ [PreferredFirst...]	Last Name ≈ [PreferredLast...]	Email ≈ [Email]
Unity ID ≈ [UnityId]	Login ≈ [Name]	Role ≈ [UserRoles/Use...]
EmplID ≈ [EmployeeID]	System... = [Active] ▼	Active St... = [ActiveStu... ▼
Active E... = [ActiveEm... ▼	Email No... ≠ [Email]	

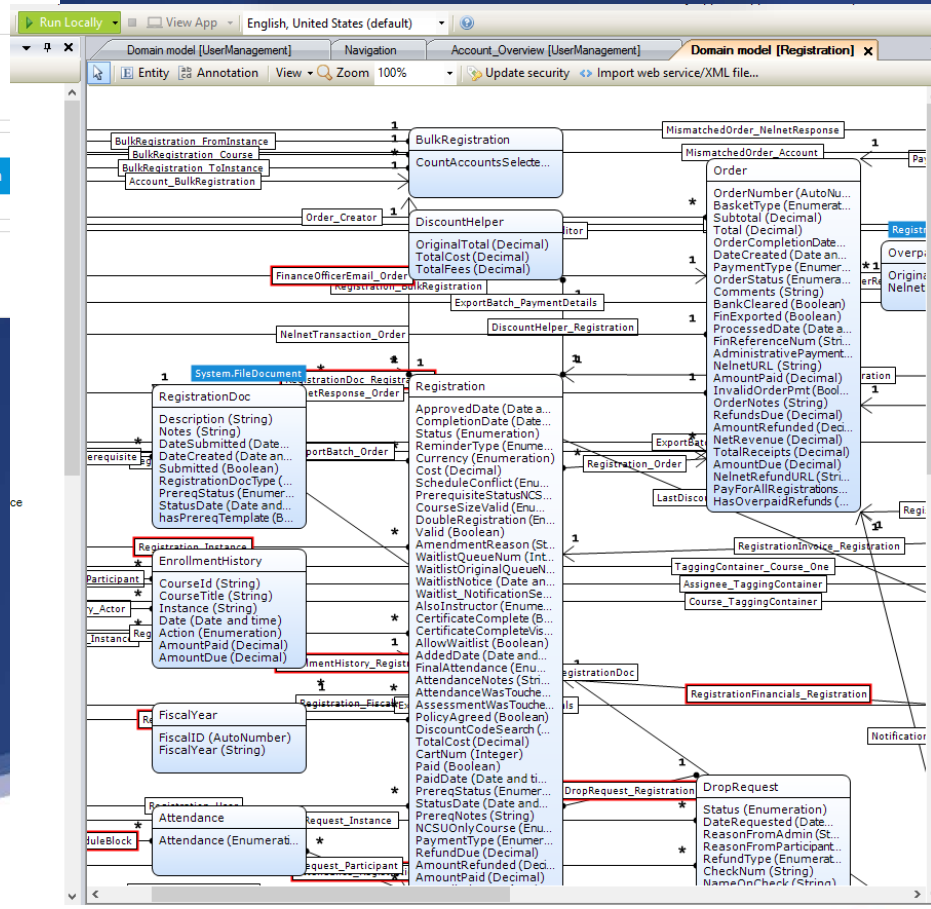
Sort order: [FullName (ascending)]

Name	Login	Email	Roles	Last Login	Syst...	Act...	Acti...
[FullName]	[Name]	[Email]	[UserRoles/UserR...	[LastLogin]	[Active]	[Acti...	[Acti...
20%	15%	15%	17%	13%	8%	6%	6%

Production

Application Status

Type	Status
CPU	Ok
Critical Logs	Ok
Health Microflow	Ok
Running	Ok



Project Scope and Direction

Phase 1 Pilots

- ◉ Required Training for Faculty, Staff & Students
 - ◉ Environmental Health & Public Safety
 - ◉ No Fee Courses
- ◉ Outreach & Engagement - <https://www.ies.ncsu.edu/courses/>
 - ◉ External Participants
 - ◉ Fee Based Courses
 - ◉ Industry Expansion Solutions

REPORTER Functionality

Phase 1 Pilot Specifics

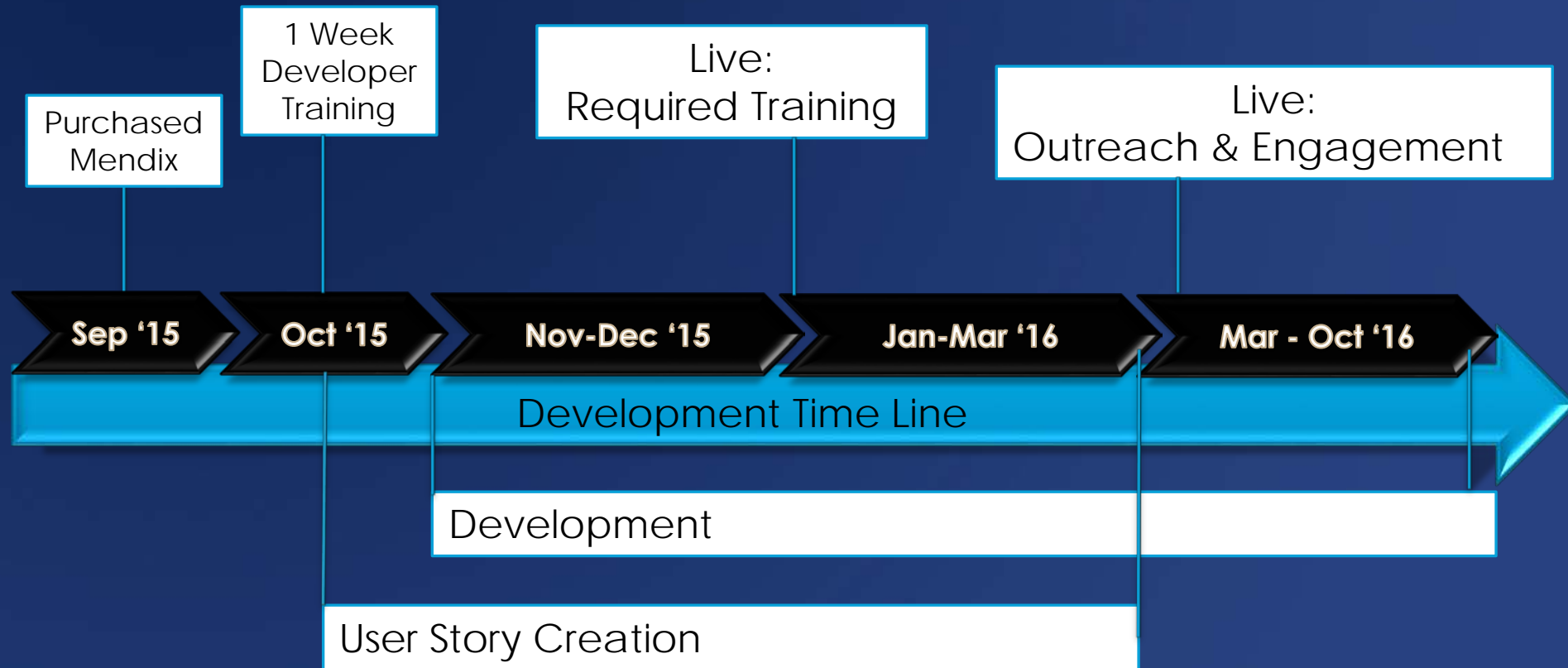
- Required Training
 - 'Tagging' Employees to courses by Course Admin or Supervisor
 - Compliance Tracking for Course Dates and Refreshers
 - Automated certificates of completion
 - Supervisor view of team's enrollment and status
- Outreach & Engagement
 - PCI compliant credit card payments
 - Pay later for checks / internal payments
 - External account creation & password management
 - External account registering others from that organization
 - Integration from current websites or applications

REPORTER Functionality

Shared Requirements

- ◉ Shared Course Catalog
- ◉ Training Summary / Non-Credit Transcript
- ◉ Standard Email Templates and Communications
- ◉ Standard Course Data Tracking
- ◉ Attendance
- ◉ LMS Integrations – Moodle
- ◉ CC Payment Integration - Nelnet
- ◉ Pull/Push from PeopleSoft HR, SIS, Financials
- ◉ Financial Reporting
- ◉ Standard University Reporting

Process & Time Line



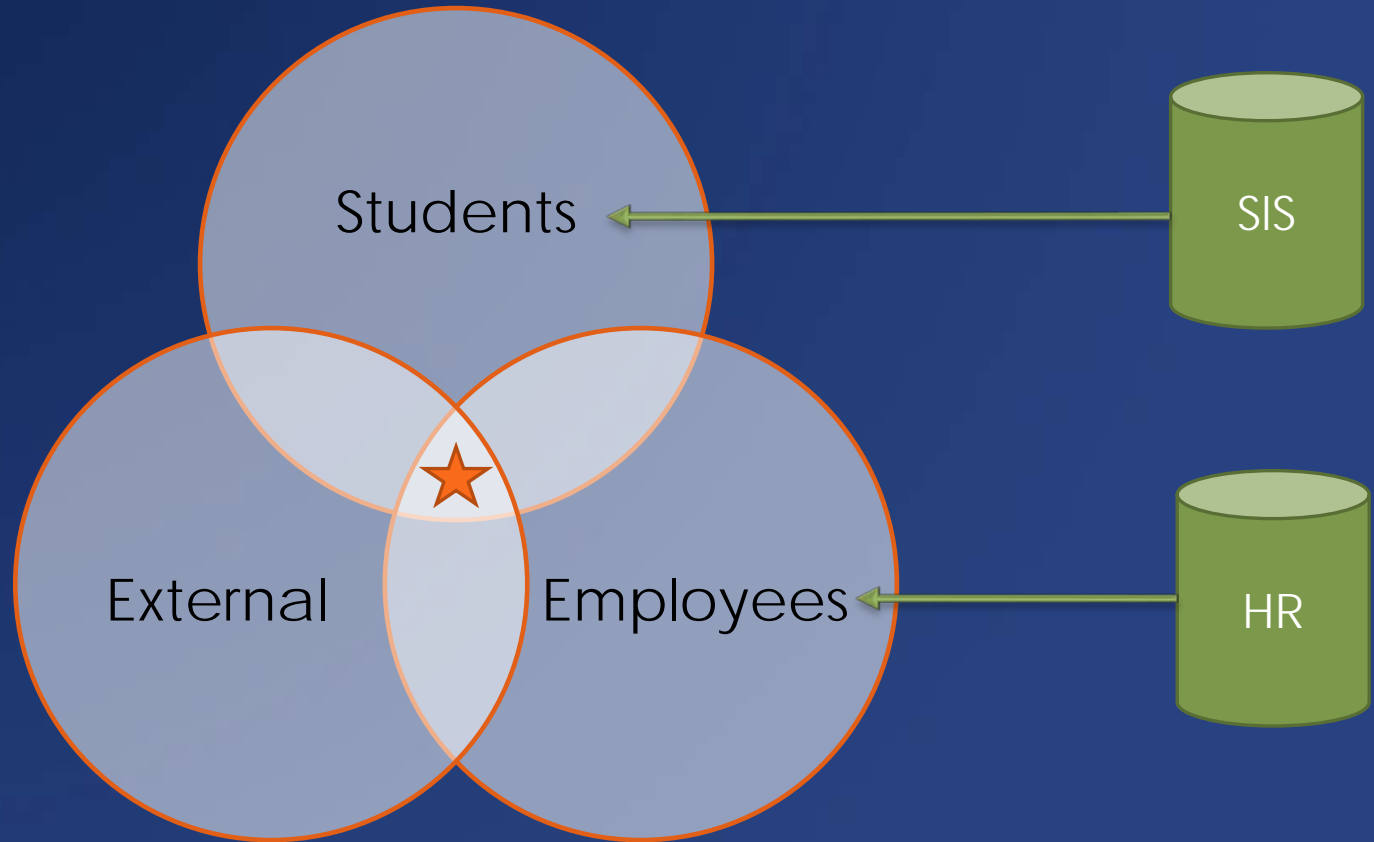
IT Project Team

- 1 Development Manager (Scrum Master)
- 1 Mendix Consultant
- 1.5 NCSU Developers
- 1 NCSU Business Analyst
- 3 Student Interns

Customer Project Team

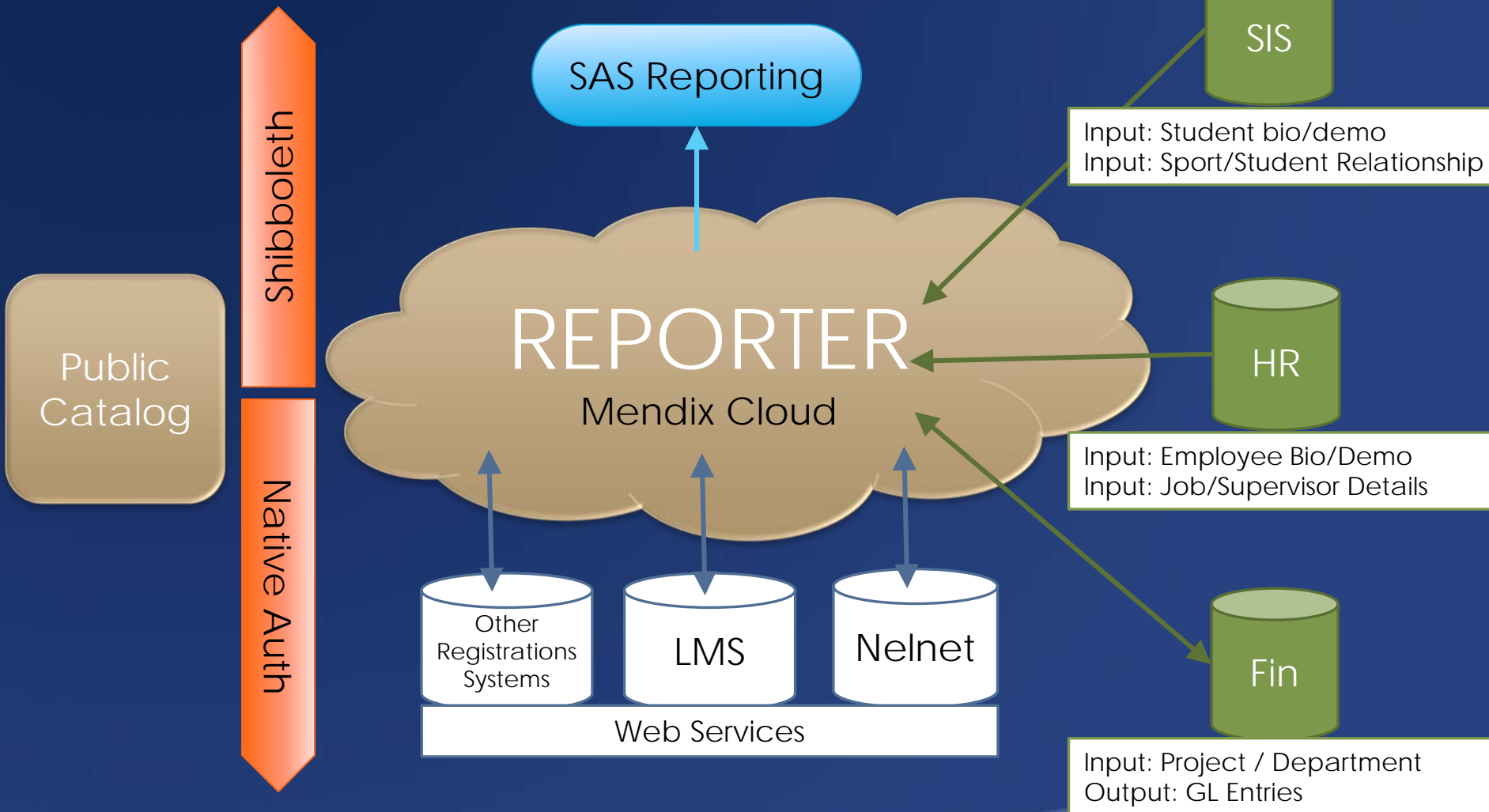
- 1 SME from Required Training
- 1 SME from Outreach & Engagement
- 1 Outreach & Engagement Project Coordinator

REPORTER Participants



REPORTER Integrations

Flat File Integrations



Course Catalog

8-Hour Hands-On HAZWOPER Refresher - IES-SAF-8-HAZ

[Add to Watchlist](#)

Annual HAZWOPER refresher training required by 29 CFR 1910.120(e)(8) and (p)(7)(ii).

Start Date	Title	Online	Available Seats	Restricted
11/10/2016	8-Hour Hands-On HAZWOPER Refresher		14	Enroll Now

8-Hour HAZWOPER for Environmental Professionals - IES-SAF-8-HAZENV

[Add to Watchlist](#)

Meets the annual refresher requirements of 29 CFR 1910.120 specific for Environmental Professionals

Start Date	Title	Online	Available Seats	Restricted
12/8/2016	8-Hour HAZWOPER for Environmental Professionals		23	Enroll Now

8-Hour HAZWOPER Refresher Online - IES-ONL-8HAZ

[Add to Watchlist](#)

Satisfy your annual refresher HAZWOPER training requirement online

Start Date	Title	Online	Available Seats	Restricted
2/29/2016	8-Hour HAZWOPER Refresher Online	✓		Enroll Now

2/29/2016 8-Hour HAZWOPER Refresher Online

Start Date Title

Online

Available Seats

Restricted



Role Based Landing Pages

Manage Courses

Courses

Prerequisite Approvals

External Courses

Drop Requests

Transfer Requests

Current Instances

Course ID	Course Name	Instance #	Start Date	Seats Left		
IES-ONL-8HAZ	8-Hour HAZWOPER Refresher Online	000001	2/29/2016	99998	Edit	Add/Drop
IES-ONL-BLUPRINT	Building a Blueprint for Managing Successful Teams	000001	2/29/2016	99997	Edit	Add/Drop
IES-ONL-BUS-FIN	Business Finance for Engineers	000001	2/29/2016	99999	Edit	Add/Drop

IES-ONL-BU

My Courses

Manage Courses

Finance 1

Attention Required

Please respond to the following Refund Requests:

Refund Steve S : \$90.00

[Dismiss](#)

Orders

Refunds

Orders Not Paid

Invalid Orders

Cancelled Orders

All Orders

Orders

[Search](#)

[View Details](#)

[Email](#)

[Export To Excel](#)

[Export To CSV](#)

[Download Order Summary](#)

1 to 20 of 122

Order Number	Order Creatc	Order Total	Amount Paid	Amount Due	Amount Refunded	Refunds Due	Payment Type	Admin Pmt?	Order Status	Order Completion Date	Total Receipts	Net Revenue
100000007	Nag...	0.00	0.00	0.00	0.00	0.00		No	Complete	3/23/2016	0.00	0.00
100000010	Hall...	1.00	1.00	0.00	1.00	0.00		No	Complete	3/21/2016	0.00	0.00
100000011	Scot...	1.00	0.00	0.00	0.00	0.00	Pay Later	No	Complete	3/22/2016	0.00	0.00

Role Based Landing Pages

My Courses 1



Attention Required

Complete your Participant Profile.

Dismiss



Upcoming Courses

You are currently registered for the following Courses:
No items found



Upcoming Courses

You are currently registered for the following Courses:

9/28/2016	EHPS-VP500	000002	Day in the Life: A Workplace Response to Domestic Violence
-----------	------------	--------	------------------------------------------------------------

[View Details](#)

Instructor 4



Attention Required

Please track the attendance for the completed course instances below.

DOT Hazardous Materials Transportation Refresher

Dismiss

DOT Hazardous Materials Transportation Training

Dismiss

Hazardous Waste Management for Generators

Dismiss

Hazardous Waste Management for Generators

Dismiss



Current Courses

Your Current/Future Course Assignment

Start Date	End Date	Instance ID	Course		
10/5/2016	10/5/2016	000001	ISO 14001:2015 Overview	View Details	View Roster
10/5/2016	10/6/2016	000001	ISO 14001:2015 Environmental Management Systems – Internal Auditor Training	View Details	View Roster
11/15/2016	11/15/2016	000003	Hazardous Waste Management for Generators	View Details	View Roster

Shopping Cart

Shopping Cart

8-Hour Hands-On HAZWOPER Refresher - IES-SAF-8-HAZ

Remove

Course Cost

\$265.00

Discount Code

Discount code if applicable

Apply

Subtotal

\$265.00

☐ I have read and agree to the [registration policies](#)

[View Similar Courses](#)

Checkout

Continue Shopping

Clear

NC STATE
UNIVERSITY

REPORTER

[Course Catalog](#)

Is this Credit Card information correct?

Please review your credit card information.

- To submit a payment, please click "Confirm" button.
- To make changes, please click "Edit" button.
- To cancel a payment, please click "Cancel" button.

Current Payment

Account:

NC State
REPORTER
Registration

OrderNumber: 100000725

Payment Amount:

\$265.00

Effective Date:

08/30/2016

Credit Card Information

Cardholder's Name: Test Account
Card Type: MASTERCARD
Credit Card Number: ending with 5454
Expiration Date: 04 / 2020

Billing Address Information

Address 1: 123 Main Street
City: Raleigh
State: NC
Zip: 27695

Contact Information

Daytime Phone: (919)555-1234
Email Address: @ncsu.edu

Confirm

Edit

Cancel

Current & Future Development

- Onboarding additional Outreach and Required Training Departments
- Summer/Youth Camps
- Enhanced Functionality for:
 - Custom Checkout Questions
 - Enhanced Prerequisite Checking
 - Additional Corporate User Registration Options
 - Certificate Programs
 - Conference Management

Challenges

- Standardizing Course Administration
- Vocabulary
- Idea of Shared Non-Credit Catalog
- Movement Between External/EE/Student Participants
- Prioritizing the Enhancement List
- Growth Requests vs. Size of Development Team

Demo

- ◉ <https://reporter.ncsu.edu>
- ◉ <https://support.reporter.ncsu.edu>
- ◉ Complete List of REPORTER Functionality:
 - ◉ <https://support.reporter.ncsu.edu/what-does-reporter-offer/>
- ◉ Complete List of REPORTER Screen Shots
 - ◉ <https://support.reporter.ncsu.edu/home/resources/screenshots/>

Questions?

Contacts

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 - Table in the Vendor Area

This presentation are
available for download from
the Conference site at
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/us-alliance-conference-files](https://www.heug.org/page/us-alliance-conference-files)

Note: Sessions from previous HEUG
conferences are also available.