RESPONSE technologies corporation

COURSE TITLE	ng and Hazai Blended)	nd Hazard Screening ded)				se No. rsion:	HAZ034 April 2013			
TOPIC AREA:	•							Technician		
SOURCE: Internal RTC						Cour	rse No.	HAZ	Z034	
PRIMARY DOMAIN:	Di	DidacticPsychomotorX Combina								
DELIVERY METHOD:		% Lecture 47% Hands-on 53% Online % Other:								
DURATION:	15 Hi	ſS	SCH	ieduling:	-	nrs Or nrs Dr	ıline ill in on	e sess	ion	
PROGRAM GOAL:	dow shal ider	Given scenarios involving unidentified hazardous materials and, while working down range in PPE as a member of a team, the hazardous materials technician, shall demonstrate the ability to properly collect and screen samples of an un- identified/potentially hazardous substances to determine general hazards of the material.								
TARGET AUDIENCE:	Part leve enfo this spec tech Rec	This program is designed for members hazardous material response teams. Participants must be previously trained to the Hazardous Materials Technicia level and be a member of such a resource. Allied response personnel (e.g. la enforcement, environmental, hazardous waste, forensic) may also benefit fro this training but must be certified by their employer to operate in mission specific areas including: personal protective equipment, basic air monitoring technical decontamination and other areas specific to their job function. Pre- Requisite Training: Hazardous Materials Technician or Mission Specific Operations Level (Required) NIMS ICS 300 (Recommended)							terials Technician ersonnel (e.g. law y also benefit from te in mission c air monitoring, bb function. Pre- ssion Specific	
COURSE DESCRIPTION	This program utilizes a blended educational approach. Both instructor led online training sessions and hands-on drills using simulated situations at the organization's site are used.									
MAX STUDENT	MAX STUDENTS: 21			1 (15 minimum)			ST. RAT	10:	1:7 (h	ands-on)
N			NFPA 472 2013 ed. Chapter 5 and 6.2, 6.5, 6.7 as appropriate NFPA 472 20 13 ed. Chapter 7.2, 7.3 as appropriate Florida SERC HazMat Operations Level Training Guidelines Chapter 9, 2010						pter 9, 2010	
APPROVALS										
Organization	te		Conditions							
NOTES										



Course Goal

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Program Concept

Field Sampling and Hazard Screening is designed to be a blended training program using both internet based, instructor led, asynchronous educational methodologies in combination with hands-on centralized in-services that will develop or maintain the skills of the hazardous materials technician.

Primary areas of focus for this program shall include:

- Important physical and chemical properties
- Selection and proper use of sampling tools and supplies
- Screening and analysis equipment/supplies and proper use

Educational Objectives

- 1. The hazardous materials technician, given example materials, shall identify the characteristics that contribute to the hazards of the material.
 - Associate how various physical properties contribute to the potential hazards of a material.
 - Describe the importance of vapor pressure as it related to volatility.
 - Identify the relationship between temperature, pressure and volume as it relates to vapors and gases.
 - Identify four primary hazards of hazardous materials.
- 2. Given scenarios and a simulated incident and, while working as a member of a team, demonstrate the ability to function down range in PPE for the purpose of collecting and screening representative samples.
 - Identify the FBI 12 step process for proper evidence collection.
 - Donn and operate in personal protective ensembles provided by the AHJ that have been identified as appropriate for the risks associated with the incident.

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- 3. Given a simulated incident and, while working as a member of a team, demonstrate the ability to participate in the collection and hazards screening of un-identified materials while using equipment and supplies provided by the authority having jurisdiction.
 - Identify the purpose, capabilities and limitations of sampling supplies and tools used to collect, contain, label and document representative samples.
 - Identify the proper sequence of use for AHJ provided direct reading instruments for the purpose of identifying any existing IDLH conditions based upon the four primary hazards.
 - Demonstrate the ability to select an appropriate location for field screening and analysis procedures.
 - Demonstrate the ability to properly collect, package, label and document representative samples.
- 4. Given simulated incidents, demonstrate the ability to conduct the following screening processes at a down range location:
 - Demonstrate the ability to screen for IDLH conditions using radiological survey meters, pH paper, four gas detectors (O2, CGI, CO, H2S), photo-ionization detectors.
 - Demonstrate the ability to use field screening techniques to identify acids, bases, fluoride compounds, oxidizers, organic/inorganic differentiation, aqueous solutions, proteins, chemical and biological agents.



Field Sampling and Hazard Screening for HazMat Technicians (1 Day Blended Training Program) <u>Program Schedule</u>

Online Session – Risk Assessment and Sampling Techniques

Module 1 –	Four Hazards
	Assessing On-scene Risks
Module 2 –	Initial Entry Monitoring
	Review of the Air Monitoring Strategy
Module 3 –	FBI 12 Step Process
Module 4 –	Field Screening Techniques
	Sampling Techniques and Team Roles
	Basic Screening Techniques

Drill Session - Screening and Analysis

0900 -	Introduction Pro Test covering online session # 1
1000 - 1030 -	Pre-Test covering online session # 1 Sampling & Screening Techniques Skill Station 1: Sampling Techniques Skill Station 2: Screening Techniques
1200 - 1230	Lunch On-site
1230 – 1300 –	Briefing Rotating situations (7 person teams) Scenario 1 – Abandoned Materials Scenario 2 – Illicit Lab
1730 - 1800	Clean-up, Debriefing and Exit Evaluation

All scenarios shall involve initial risk assessments, use of PPE, initial entry & air monitoring, sampling and hazard screening mission.