

SPECIAL/INDUSTRIAL BUREAU

The Special/Industrial Bureau proudly offers courses to fire and emergency response personnel in the public and private sectors. Courses offered include Technical Rescue, Hazardous Materials, Advanced Firefighting, Water Rescue, and Industrial Emergency Response.

Changes to course formats in 2024 to be aware of:

NFPA 470 Hazardous Materials Awareness and Operations and NFPA 470 Hazardous Materials Technician-I will be delivered in a hybrid format. These changes are to accommodate the new 2024 NFPA 470 Standard and Job Performance Requirements (JPRs) for the Hazardous Materials discipline. The courses will be delivered in a hybrid format over a period of three (3) weeks. The first 2 weeks will be conducted online via the MSFA Learning Management System (LMS). The online portion will be a self-study module. The third week will be held on campus at the MSFA for in-person training and testing.

Surface water & Swiftwater Rescue Technician will be delivered in a two-session format. The purpose for this change is to better optimize use of the new training site in addition to accommodating travel.

The staff also continues to customize courses for our industrial clients through negotiated contract. These custom courses may incorporate all or part of any program offered. We recommend that our industrial clients contact us to schedule classes as early as possible, to help ensure staff and facility availability.

The cost of some of our courses are reduced, thanks to grant funds. As always, we must express our appreciation to the Mississippi Emergency Management Agency (MEMA) for their generous support in programs such as Hazardous Materials and Confined Space Rescue.

The staff of the Special/Industrial Bureau looks forward to meeting your training needs in 2024. If we can be of assistance, please contact me via the information below

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601-420-1732

INSTRUCTOR CHIEF NICK RAGAN

SPECIAL/INDUSTRIAL BUREAU

FIREGROUND LEADERSHIP

Course Number:	SC 611		
Course Hours:	40		
EMS CEU Hours:	4	Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.	
Maximum Enrollment:	20	Minimum Enrollment:	10
Dates of Delivery:	January 8-12, 2024	February 12-15, 2024	November 4-7, 2024
Course Fee:	\$360 - Group A	\$495 - Group B	

Course Description: This course is designed to address the management needs of first-in engine company officers or officials who are responsible for emergency response actions, including the direct supervision of other fire personnel, prior to the arrival of higher-ranking departmental officials. The main focus of the course is to advance the ability of the initial officer in charge of the scene of a fire situation to safely manage the response actions of assigned personnel. The course curriculum includes preparation for response, decision-making, and tactical operations.

NOTE: Student must bring NFPA approved structural firefighting protective clothing. This includes helmet, coat, pants, boots, hood, and gloves. SCBA will be provided.

FIRE SERVICE MANAGEMENT - 101

Course Number:	SC 601		
Course Hours:	40		
EMS CEU Hours:	4	Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.	
Maximum Enrollment:	24		
Minimum Enrollment:	16		
Dates of Delivery:	August 12-15, 2024		
Course Fee:	\$415 - Group A	\$550 - Group B	

Course Description: This course is designed to assist the personnel currently serving as officers in the public fire service in addressing information not normally found in other Academy courses. Course focuses on the individual fire officer and varied management and supervisory issues. Information presented will assist the fire officer in making informed decisions required for personnel supervision and organizational change. Specifically, participants will be introduced to subjects such as: the legal aspects of providing fire protection, purchasing laws and regulations, equipment management issues, auditing issues, organizational relationship to the Mississippi Rating Bureau, sexual harassment, and conflict resolution.

INSTRUCTOR CHIEF NICK RAGAN

SPECIAL/INDUSTRIAL BUREAU

SMOKE DIVER

Course Number:	SC 500
Course Hours:	40
EMS CEU Hours:	12 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.
Maximum Enrollment:	30 Minimum Enrollment: 15
Course Fee:	\$420 - Group A \$555 - Group B
Dates of Delivery:	February 26-29, 2024 November 18-21, 2024
Prerequisite:	Documented Fire Fighter 1001-I-II or Volunteer Certification Level I Training. Students are required to have the Mississippi State Fire Academy Physical Examination Form completed and signed by a Medical Doctor or Doctor of Osteopathy per the NFPA 1582 4.1.4. (Form can be found on Academy website). Will be valid for one year from date signed by Medical Doctor or Doctor of Osteopathy. Entity will be billed for entire course fee for registered students who fail to report for class, those who fail physical agility assessment, or withdrawal during the course.
Physical Agility Test:	Required and will be administered as the first training activity. Students who fail the physical agility test will not be allowed to continue the course.
Course Description:	This is a physically demanding, advanced fire fighter course with a focus on fire suppression and structure fire rescue. The course activities are designed to provide realistic fireground working conditions, requiring the student to learn as a team member the limitations of equipment and physical conditioning. Course activities are designed to teach: the limitations of fire fighter personal protective equipment, tactics involving flammable liquid and gas scenarios, structure fire rescue techniques, navigating in fire structures in zero visibility conditions, hose line techniques utilizing 1 3/4" and 2 1/2" attack lines, tactics for interior fire attack, and rappelling while utilizing fire fighter protective equipment. The emphasis of this class is personal fire fighter safety while functioning as a team member, exposing the student to a multitude of scenarios designed to be as realistic as possible.
Other:	Students are required to have NFPA full protective clothing, including SCBA and a spare cylinder which meets the NFPA 1981 standard. Students who withdraw from the course must complete another smoke diver course in its entirety to receive certification. The Academy does not furnish student SCBA for this course.

SMOKE DIVER PHYSICAL AGILITY TEST MINIMUM STANDARDS

1. Mile and one-half run under 12 minutes.
2. Forty-five (45) bent knee sit-ups under 2 minutes. (Candidate's legs shall be bent to approximate 45-degree angle. Feet shall be held in place by a designated assistant. Arms shall be crossed on the chest with hand palms against chest. Crossed forearms shall maintain contact with chest when raising body. Candidate shall raise upper body until crossed forearms make contact with thighs. Shoulder blades shall make contact with ground when body is lowered.)
3. Twenty-five (25) push-ups under 2 minutes without returning to beginning rest position.
4. Seven (7) pull-ups (starting position is palms away, arms fully extended downward with the feet off the ground, pull body up until chin is ABOVE bar, and return to starting position, repetitively, without releasing the bar or touching the ground.)
5. Carry two sections of 2 1/2" hose in a self-locking doughnut roll up and back down four flights of stairs without stopping or falling.

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SPECIAL/INDUSTRIAL BUREAU

ROPE RESCUE AWARENESS & OPERATIONS (ROPE LEVEL I)

Course Number:	SC 530-1	This Course Is Accredited By PROBOARD.		
Course Hours:	40			
EMS CEU Hours:	12	Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.		
Maximum Enrollment:	20	Minimum Enrollment: 10		
Course Fee:	\$365 - Group A	\$505 - Group B		
Dates of Delivery:	May 20-23, 2024	June 24-27, 2024	August 5-8, 2024	
Course Description	This course is an introduction to the subject of high angle rescue. It is designed to build students' confidence in their ability to use modern rope rescue techniques. Throughout the course, emphasis is placed on safety of both the victim and the rescuer. Subjects include basic information on ropes and knots, rigging, simple mechanical advantages, and other related equipment. The primary purpose of this course is to provide students with a safe environment to learn proper techniques in anchor identification, rappelling, gaining access to victims, and in building both individual and team confidence. This course references NFPA 1006 Chapters 5. Students must achieve a 70% or greater on exam and practice skills testing in order to receive a certificate.			
Other:	Students will not be allowed to use personal rescue equipment during the course (except seat harness which must be approved prior to start of class). Short pants will not be allowed, and hard sole boots are mandatory during field activities. Students should bring a rescue helmet and gloves to class.			

RESCUE TECHNICIAN (ROPE LEVEL II)

Course Number:	SC 530-2	This Course Is Accredited By PROBOARD.		
Course Hours:	40			
EMS CEU Hours:	12	Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.		
Maximum Enrollment:	20	Minimum Enrollment: 10		
Course Fee:	\$365 - Group A	\$505 - Group B		
Dates of Delivery:	June 3-6, 2024	July 8-11, 2024	August 19-22, 2024	
Prerequisite:	Rope Rescue Awareness & Operations (Rope level I) Skills Entrance Test Required			
Course Description:	This course reinforces the basics learned and demonstrated in Rope Rescue Awareness & Operations and begins to provide to the student methods to learn advanced high angle rescue techniques. Included in the course are complex anchors, advanced hauling systems, specialized patient packaging and scenarios utilizing high angle facilities at the Academy. Team leader functions are rotated among all participants to facilitate the development of leadership skills during rescue activities. All participants will function as a rescuer, safety, belay, and team leader during scenario-based training activities. This course references NFPA 1006 Chapter 5. Students Must Pass Entrance Skills On The First Day To Continue In Course . Students must achieve a 70% or greater on exam and practical skills testing in order to receive a certificate.			
Other:	Students will not be allowed to use personal rescue equipment during the course (except seat harness which must be approved prior to start of class). Short pants will not be allowed, and hard sole boots are mandatory during field activities. Students should review and bring information acquired during Rope Rescue I to class. Students should bring a rescue helmet and gloves to class.			

INSTRUCTOR CHIEF NICK RAGAN

SPECIAL/INDUSTRIAL BUREAU

ROPE RESCUE AWARENESS & OPERATIONS FIELD

DELIVERY

This Course Is Accredited By PROBOARD.

Maximum Enrollment:	16/group	Minimum Enrollment:	12
EMS CEU Hours:	Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.		
Course Fee:	Call the Special/Industrial Bureau for information.		
Dates of Delivery:	Call the Special/Industrial Bureau for information.		
Target Audience:	Public emergency response personnel of Mississippi		

Course Description: This course was developed to assist local departments in preparing for technical high angle rescue operations. The goal of this program is two-fold: first to standardize high angle rescue information for organizations across the state, and secondly to provide an off-campus training path for organizations to receive state certification as a Rope Rescue Technician-I, normally provided on campus in a 40-hour, week-long class.

CONFINED SPACE RESCUE TECHNICIAN

(Awareness, Operations, and Technician levels)

Course Number:	SC 532 This Course Is Accredited By PROBOARD.		
Course Hours:	40		
EMS CEU Hours:	12	Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.	
Maximum Enrollment:	20	Minimum Enrollment:	10
Course Fee:	\$0 - Group A	\$505 - Group B	
	The Group A course fee is covered by a grant from the MEMA.		
Dates of Delivery:	March 4-7, 2024	November 11-14, 2024	
Prerequisite:	Rope Rescue Awareness & Operation and HazMat Technician Skills Entrance Test Required		

Course Description: This course is designed to help fire service organizations meet the demands general industry has concerning confined space entry and rescue. General industry has been under pressure to comply with federal regulations established in OSHA's standard Permit-Required Confined Spaces for General Industry, 29 CFR 1910.146. This standard either requires general industry to develop a rescue team within the organization, or to have a written agreement with an outside organization who will respond to the industrial site within specific time frames to perform rescue functions. This course will address lock-out/tag-out, ventilation, air monitoring, protective clothing, rescue equipment, patient packaging, patient removal from confined spaces, and supplied air breathing apparatus.

Students Must Pass Entrance Skills on The First Day to Continue in Course. Students must achieve a 70% or greater on exams at Awareness, Operation and Technician Level as well as practical skills testing to receive a certificate.

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Other: Students will not be allowed to use personal rescue equipment during the course (except seat harness which must be approved prior to start of class). Short pants will not be allowed, and hard sole boots are mandatory during field activities. Students should review and bring information acquired during Rope Rescue I to class. **Students should bring a rescue helmet and gloves to class.**

CONFINED SPACE RESCUE FIELD DELIVERY This Course Is Accredited By PROBOARD.

Minimum Enrollment: 12 Maximum Enrollment: 16
Course Fee: The course fee may be covered by a grant from the MEMA.
Call for information.
EMS CEU Hours: Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.
Course Description: This course was developed to assist local departments in preparing for technical rescue situations involving entry into municipal and industrial confined spaces. The goal of this program is two-fold; first to standardize confined space rescue across the state, and secondly, to provide an off-campus training path for organizations to receive state certification in Confined Space Rescue, which is normally provided on-campus in a 40-hour, weeklong class.
Target Audience: Public emergency response personnel of Mississippi

TRENCH RESCUE TECHNICIAN

AWARENESS, OPERATIONS AND TECHNICIAN LEVELS

Course Number: SC 538 This Course Is Accredited By PROBOARD.
Course Hours: 40
Maximum Enrollment: 20
EMS CEU Hours: 12 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.
Course Fee: \$485 - Group A \$625 - Group B
Dates of Delivery: September 16-19, 2024 September 23-26, 2024
Prerequisite: Confined Space Rescue Technician

Course Description: This course is designed to help rescuers develop the knowledge and skills necessary to conduct basic trench rescues and do emergency shoring in compliance with OSHA 1926.650, NFPA 1006, and 1670 Professional Rescue Standards for Trench Rescue. Students must achieve a 70% or greater on exams at Awareness, Operations and Technician Level, as well as practical skills testing in order to receive a certificate.

Other: Students will not be allowed to use personal rescue equipment during the course. Short pants will not be allowed, and steel toed boots are mandatory during field activities. **Students should bring a rescue helmet and gloves to class.**

INSTRUCTOR CHIEF NICK RAGAN

SPECIAL/INDUSTRIAL BUREAU

SURFACE WATER & SWIFTWATER RESCUE TECHNICIAN

Course Number: SC 546

Course Hours: 48

Maximum Enrollment: 20

Course Fee: \$485 - Group A \$650 - Group B

Call for information. The sponsoring departments will be responsible for student lodging and meals for the off-campus portions of course.

Dates of Delivery: **Delivered in a two-session format.**

April 1-4, 2024- Campus Session and April 8-11, 2024- Off campus training site

Prerequisites: Rope Rescue Level 2 (2010 or later MSFA)

Substitute: Rope Rescue Technician with Highlines NFPA 1006 Compliant

Skills Entrance Test Required Surface Water & Swiftwater Rescue Levels 1-2

IADRS Annual Watermanship Test: 500 Yard Swim, 15 Minute Tread, 800 Yard Snorkel Swim,
100 Yard Inert Rescue Tow, Free Dive for 20lb Weight

Tie: Figure Eight on a Bite, Double Loop Figure Eight, Clove Hitch, Bowline, Prusik Hitch,
Munter Hitch w/Tie-Off, Square Knot, Double Fisherman's Knot, Water Knot in Webbing

Tie/Anchor: Tensionless Anchor, Wrap-3 Pull 2 Anchor

Rig/Operate: 3:1 Z-Rig Mechanical Advantage System

Course Description: The Surface and Swiftwater Rescue Technician program utilizes the textbook: *Swiftwater Rescue: A Manual for the Rescue Professional* 2nd Ed. The text consists of seventeen chapters and deals with topics ranging from easy rescues to highly technical problems. The course is with 25% lecture and 75% hands-on training. Topics covered include rescue techniques of Reach-Throw-Row/Go-Helo. Students will learn skills and gain confidence in still water, flood water, and Swiftwater environments. Areas covered will include rescue swimming, boat operations, and advanced rope rescue applications. **Students Must Pass Entrance Skills On First Day To Continue In Course.** Students must achieve a 70% or greater on all exams and practical skills assessments in order to receive a certificate.

Note: Required PPE: Water Rescue Helmet & PFD, Wet Suit and/or Dry Suit, Water Rescue Boots, Whistle and Gloves, Knife, Mask & Snorkel, Swim Fins (short).
Recommended Equipment: Water Rescue Throw Bag & Rope, Strobe/Chem Light, Sunscreen, Water Bottle.
***Students/Sponsoring Departments are responsible for off-campus lodging and meals Wednesday through Friday**

INSTRUCTOR CHIEF NICK RAGAN

SPECIAL/INDUSTRIAL BUREAU

FIREFIGHTER INTERVENTION RESCUE SURVIVAL TECHNIQUES (FIRST)

Course Number: SC 537
Course Hours: 40
Maximum Enrollment: 24
EMS CEU Hours: 12 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.
Course Fee: \$365 - Group A \$505 - Group B
Dates of Delivery: March 18-21, 2024 May 6-9, 2024 October 28-31, 2024
Prerequisite: Firefighter 1001-I-II and/or Certified Volunteer Firefighter Level - I

Course Description: This course is designed to train firefighters in rapid intervention operation and survival techniques. The course will consist of both classroom and practical settings. Firefighters will train in personal escape procedures, rescue of downed firefighter, SCBA use, safety, NFPA 1500 standard and OSHA 29 CFR 1910.104 regulation for rapid intervention teams, and much more. The course is for all firefighters, although it is a physically demanding course due to the time and events using full firefighter protective equipment.

Other: Students are required to have NFPA full protective equipment including SCBA which meets NFPA 1981 standards. SCBA availability will be limited to out of state students.

VEHICLE EXTRICATION & RESCUE TECHNICIAN

(AWARENESS, OPERATIONS AND TECHNICIAN LEVELS)

Course Number: SC 545 **This Course Is Accredited By PROBOARD.**
Course Hours: 48
EMS CEU Hours: 12 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.
Maximum Enrollment: 24 Minimum Enrollment: 10
Course Fee: \$400 - Group A \$540 - Group B
Dates of Delivery: April 22-26, 2024 October 7-11, 2024
Prerequisites: NFPA 472 Hazardous Materials Operations & NFPA 1006 Confined Space Rescue Technician

Course Description: The Vehicle Extrication & Rescue Technician program utilizes the textbook: *Vehicle Extrication Levels 1 & 2: Principles and Practice*. The text consists of thirteen chapters and addresses fundamental skills through heavier commercial vehicles. The course is designed with 25% lecture and 75% hands-on training. Topics covered include conventional hydraulic extrication, buttress stabilization systems, hand tool extrication techniques, stabilizing, lifting, and medical considerations. Students must achieve a 70% or greater on exams at Awareness, Operations and Technician Level, as well as practical skills testing in order to receive a certificate.

Note: Required PPE: NFPA compliant full turnout gear or extrication suit (fire retardant jumpsuit), hard hat or firefighting helmet, work gloves, steel toed boots, and OSHA approved safety glasses.

Students will not be allowed to participate in training without all safety equipment.

INSTRUCTOR CHIEF NICK RAGAN

SPECIAL/INDUSTRIAL BUREAU

CERTIFIED ADVANCED RESCUE SPECIALIST (CARS)

Course Number: SC 536
Course Hours: 40
EMS CEU Hours: 12 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.
Maximum Enrollment: 20 Minimum Enrollment: 10
Course Fee: \$400 - Group A \$535 - Group B
Dates of Delivery: June 17-20, 2024
Prerequisites: 1) Documented emergency medical care training to First Responder level,
2) Mississippi Smoke Diver,
3) Rope Rescue-II, and
4) any three (3) of:
- Hazardous Materials Tech-I - Confined Space Rescue - Dive Rescue Specialist
- F.I.R.S.T. - Vehicle Extrication & Rescue - Trench Rescue Technician
- Swiftwater Rescue Technician - Structural Collapse Technician

Course Description: This course is designed to bring together different types of rescue subject matter into one course. It develops through realistic, scenario-based training, team leader decision making necessary to accomplish rescue tactics in a safe manner. Course reinforces information found in earlier course prerequisites and seeks to demonstrate how the application of this information can be modified and applied to solve various rescue situations. Course includes topographical map reading, compasses and their use, and overland rescue techniques, to complement other subject matter from disciplines such as structural firefighting, hazardous materials, rope and confined space rescue.

Other: The class is for individuals who can swim, have no fear of heights, are not claustrophobic, can fight interior structure fires, and understand hazardous materials terminology. Students are required to have NFPA full protective clothing, including SCBA which meets the NFPA 1981 standard. Students who withdraw from the course for any reason must complete another course in its entirety to receive certification.

Students should bring a rescue helmet and gloves to class.

INSTRUCTOR CHIEF NICK RAGAN

SPECIAL/INDUSTRIAL BUREAU

TOWER RESCUE TECHNICIAN

Course Number: SC 543

Course Hours: 40

Maximum Enrollment: 12

Course Fee: \$400

Dates of Delivery: October 21-24, 2024

Prerequisite: Rope Rescue Technician (2010 or later) & Confined Space Rescue Technician

Prerequisites and Entry Skills Test Required

Course Description: The Tower Rescue Technician Course meets the requirements of Chapter 4 of the 2017 Edition of NFPA 1006 Standard for Technical Rescuer Professional Qualifications. Students will build upon skills learned in their previous courses and work to solve complex problems in small teams at height. The course is 20% lecture and 80% hands-on training. Topics include controlling hazardous energy and monitoring for radio frequency (RF) radiation. The rescue topics in the course include basic-intermediate rope access, climbing elevated structures, the use of lanyards and back-up devices, raises and lowers, pick-offs, and multi-pitch tower rescue. Topics in this course can be applied to any elevated structures from communications towers to billboards to industrial facilities. **Students Must Pass Entrance Skills On First Day To Continue In Course.** Students must achieve a 70% or greater on all exams and practical skills assessments in order to receive a certificate.

Other: Students are encouraged to bring their own harness, ascending system, descender, and other rescue kits they might use in the field. All gear is subject to inspection and should be of safe condition and age. Short pants will not be allowed, hard sole boots are mandatory during field activities. Students should review and bring information acquired during Rope Rescue 2 to class.

Students should bring a rescue helmet and gloves to class.

Ascending: Ascend 30' on a conventional sit-stand / rope access ascending system. Demonstrate the ability to down-climb 10'. Change over to descent on an approved auto-locking descender. Rappel to the ground. Complete in under 12 minutes. Two attempts allowed.

Tie:	Figure Eight on a Bite	Double Loop Figure Eight	Clove Hitch
	Bowline	Prusik Hitch	Munter Hitch w/Tie-Off
	Square Knot Double	Fisherman's Knot	Water Knot in Webbing
Tie/Anchor:	Tensionless Anchor	Wrap-3	Pull 2 Anchor
Rig/Operate:	3:1 Z-Rig Mechanical Advantage System		

INSTRUCTOR CHIEF NICK RAGAN

SPECIAL/INDUSTRIAL BUREAU

ADVANCED ROPE RESCUE WORKSHOP: WILDERNESS

Course Number SC 547

Course Hours: 24

Maximum Enrollment: 12

Course Fee: \$60

Delivery Date TBD

Prerequisite: Rope Rescue Level 2 (2010 or later MSFA)

Prerequisites and Entry Skills Test Required

Course Description: This advanced rescue workshop will take students out of their customary urban / industrial setting and to the pristine cliffs of northeast Mississippi. The course will build on skills acquired in NFPA Rope Rescue Level 2 (Technician) and apply them to the wilderness environment.

Topics include artificial anchors, artificial high directional (AHDs), litter tending, horizontal rope systems, and an emphasis on individual movement on rope. The course will take place Friday morning until Sunday lunch (24 hours total). The enrollment is limited to 12 attendees. Students will be required to perform a skills demonstration of ascending with change-overs, knots, and MAs, prior to participating in the workshop.

NOTE: Students are responsible for meals and lodging. Lunches will be backpacked into the field. Camping, RV access, and cabins are available through Tishomingo State Park.

Other: Students are encouraged to bring their own harness, ascending system, descender, and other rescue kit they might use in the field. All gear is subject to inspection and should be of safe condition and age. Short pants will not be allowed, and hard sole boots are mandatory during field activities. Students should review and bring information acquired during Rope Rescue 2 to class.

Students should bring a rescue helmet and gloves to class.

Ascending: Ascend 30' on a conventional sit-stand / rope access ascending system. Demonstrate the ability to down-climb 10'. Change over to descent on an approved auto-locking descender. Rappel to the ground. Complete in under 12 minutes. Two attempts allowed.

Tie: Figure Eight on a Bite Double Loop Figure Eight Clove Hitch
Bowline Prusik Hitch Munter Hitch w/Tie-Of
Square Knot Double Fisherman's Knot Water Knot in Webbing

Tie/Anchor: Tensionless Anchor, Wrap-3, Pull 2 Anchor

Rig/Operate: 3:1 Z-Rig Mechanical Advantage System

INSTRUCTOR CHIEF NICK RAGAN

SPECIAL/INDUSTRIAL BUREAU

HAZARDOUS MATERIALS AWARENESS AND OPERATIONS: HYBRID

Course Number: 1072: OL **This Course Is Accredited by IFSAC and PROBOARD**
Course Hours: 40
EMS CEU Hours: 40 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.
Maximum Enrollment: 35
Course Fee: \$0 - Group A \$320 - Group B
The Group A course fee is covered by a grant from the MEMA.

Dates of Delivery: **1. January 8 (zoom orientation) Online Module January 8-21 Campus Session January 22-25**
2. February 5 (zoom Orientation) Online Module February 5-18 Campus Session February 19-22
3. March 11 (zoom Orientation) Online Module March 11-24 Campus Session March 25-28
4. April 1 (zoom Orientation) Online Module April 1-14 Campus Session April 15-18
5. July 8 (zoom Orientation) Online Module July 8-21 Campus Session July 22-25
6. July 29 (zoom Orientation) Online Module July 29- August 11 Campus Session August 12-15
7. September 9 (zoom Orientation) Online Module September 9-22 Campus Session September 23-26
8. October 28 (zoom Orientation) Online Module October 28-November 10 Campus Session November 11-14

Course Description: **The course will be delivered in a hybrid format over a period of three (3) weeks. The first 2 weeks will be conducted online via the MSFA Learning Management System (LMS). The online portion will be a self-study module. The third week will be held on campus at the MSFA for in-person training and testing. Students must achieve a 70% or greater on exams at Awareness, Operations and Mission Specific levels, as well as practical skills testing in order to receive a certificate. 2nd attempt testing will be held the Friday of the campus session.**

Note: **This is a Prerequisite required for Fire Fighter 1101-I-II course**

HAZARDOUS MATERIALS TECHNICIAN - I

Course Number: SC 472-TECH1 **This Course Is Accredited by IFSAC and PROBOARD.**
Course Hours: 80
EMS CEU Hours: 32 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.
Maximum Enrollment: 20 Minimum Enrollment: 10
Course Fee: \$0 - Group A \$1,040 - Group B
The Group A course fee is covered by a grant from the MEMA.

Dates of Delivery: **1. January 15 (zoom orientation) Online Module January 15-28 Campus Session January 29- February 2**
2. July 1 (zoom orientation) Online Module July 1-14 Campus Session July 15-19
3. November 18 (zoom orientation) Online Module November 18- December 1 Campus Session December 2-6

Prerequisites: NFPA 1072 Hazardous Materials Operations (or Equivalent 472)

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Course Description: This course will build upon the information established in Hazardous Materials Awareness and Operation. The text consists of chapters including *Review of Haz Mat Competencies, Scene Management, Chemical and Physical Properties, Chemistry and Hazards, Exposure Assessment and Toxicology, Hazard and Response Information, Detection and Monitoring, PPE, Decontamination, Container Identification, Product Control and Demobilization and Termination*. The course will be delivered in a hybrid format over a period of three (3) weeks. The first 2 weeks will be conducted online via the MSFA Learning Management System (LMS). The online portion will be a self-study module. The third week will be held on campus at the MSFA for in-person training and testing. Students must achieve a minimum of 70% on the cognitive portion and skills to qualify for the certification final.

Note: Due to the content of the text used in this course, it is recommended that students acquire and start reading the student manual prior to attending this class.
Two (2) field deliveries will be offered in Spring 2022. One in North, MS another in South, MS Updates will be provided via Website and/or Social Media

HAZARDOUS MATERIALS TECHNICIAN - II

Course Number: SC 472-T2
Course Hours: 45
EMS CEU Hours: 32 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.
Maximum Enrollment: 20 **Minimum Enrollment:** 10
Course Fee: \$0 - Group A \$630 - Group B
The Group A course fee is covered by a grant from the MEMA.
Dates of Delivery: January 15-18, 2024 August 26-29, 2024
Prerequisite: Hazardous Materials Technician-I
Course Description: This course builds upon the information established in the Haz Mat Tech-I course. Students should bring information acquired during Tech-I to build upon it. Testing will also be required just as in the Tech-I course, with a comprehensive review of past nomenclature and information. Review of information will be brief to maintain a level of 50% hands-on activity and 50% lecture. Further information will be provided in areas such as monitoring devices, railroad tank car and highway tanker valving arrangements and nomenclature. A variety of scenarios will be demonstrated, using small teams, to reinforce subject presented in the classroom.

Note: Due to the content of the text used in this course, it is recommended that students acquire and start reading the student manual prior to attending this class.

INSTRUCTOR CHIEF NICK RAGAN

SPECIAL/INDUSTRIAL BUREAU

INCIDENT MANAGEMENT OF HAZARDOUS MATERIALS

Course Number: SC 472-IC
Course Hours: 45
EMS CEU Hours: 16
Maximum Enrollment: 10
Course Fee: \$0 - Group A \$630 - Group B
The Group A course fee is covered by a grant from the MEMA.

Dates of Delivery: **August 26-29, 2024**

Prerequisite: Hazardous Materials Technician Level I or equivalent
ICS 100,200,700, 300 or equivalent

Course Description: The primary focus for this course is to emphasize the importance of command and control at incidents involving Hazardous materials. This course will require participants to manage and lead incidents involving actual hazardous material technicians mitigating emergencies. Participants will be required to complete all necessary NIMS/ICS documents, produce Incident Action Plans (IAP's), develop specific Site Safety Plans, conduct safety briefing, lead in criminal investigations as well as any forms and documents related to criminal or terrorist investigations, incident briefs, and other task associated with actual hands-on scenario-based activities. This course will be lecture, and interactive with students in hand on scenarios. The in-depth planning and decision-making processes involved in this course will prepare the participants to managing and documenting responses to real world emergencies involving hazardous materials.

Note: Due to the content of this course, it is recommended that students review materials that were covered in the hazardous materials technician course and be familiar with the types of containers used in surface transportation and the concepts used to mitigate them. This class is only 10 % classroom and the remainder of the class requires individuals to serve in actual leadership positions to manage technicians responding to scenario-based emergencies.

HAZARDOUS MATERIALS TECHNICIAN FIELD DELIVERY

Accredited by IFSAC and PROBOARD. This course is provided through a combination of online and off-campus delivery, upon written request and availability of staffing.

Course Hours: 80 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.

Maximum Enrollment: 20 Minimum Enrollment: 10

Course Fee: The course fee may be covered by a grant from MEMA. Call for information.

Course Description: This course will build upon the information establish in Hazardous Materials Awareness and Operation. The text consists of chapters including Review of Haz Mat Competencies, Scene Management, Chemical and Physical Properties, Chemistry and Hazards, Exposure Assessment and Toxicology, Hazard and Response Information, Detection and Monitoring, PPE, Decontamination, Container Identification, Product Control and Demobilization and Termination. Students must achieve a minimum of 70% on the cognitive portion and skills to qualify for the certification final.

Note: Available for Group A only, statewide upon written request and mutually agreed upon dates, and dependent on federal funding and available instructional staff. Contact the Admissions Office for details.

INSTRUCTOR CHIEF NICK RAGAN

SPECIAL/INDUSTRIAL BUREAU

NFA CHEMISTRY OF HAZARDOUS MATERIALS: FIRE CHEM I

Course Number SC 540-FCI

Course Hours: 80

EMS CEU Hours: 36 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.

Maximum Enrollment: 20

Course Fee: \$0 - Group A \$805 - Group B

The Group A course fee is covered by a grant from the MEMA.

Dates of Delivery: June 10-20, 2024

Prerequisite: **Complete pre-course studies: *Foundational Concepts of Chemistry (Q228), NFA on-line course.***

Course Description: This course provides the basic knowledge required to evaluate the potential hazards and behaviors of materials considered to be hazardous for one or a combination of reasons. Directed at the underlying reasons for the chemical behavior of hazardous materials, the course is designed to improve decision-making, safety in operations at incidents, and the possible complex handling problems of materials when they are released from their containers. The course is chemistry oriented, but students without any chemistry background can complete the course of instruction. Students attending this course should be emergency response personnel who have the responsibility for analysis, management, and/or tactical response to a hazardous materials incident, or fire prevention, investigation or inspection personnel who need some knowledge of the hazardous properties of substances.

INSTRUCTOR CHIEF NICK RAGAN

SPECIAL/INDUSTRIAL BUREAU

INDUSTRIAL ON-SITE TRAINING PROGRAMS

EMS CEU Hours: 14 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.

Dates of Delivery: Available upon organizational request

The Academy has for several years offered training in an off-campus format. The types of programs the instructional personnel have provided throughout the state are:

- Rescue (High Angle, Below Grade, and Confined Space)
- Fire Suppression (Incipient and Structural)
- Hazardous Materials (Awareness, Operational, Technician, Specialist, and Incident Commander)
- Fire Officer and Instructional Techniques

These courses have been designed to meet the clients' needs and have often been mixed to provide a blend of information required of brigade personnel having multiple responsibilities within an on-site emergency response team. With planning and a needs assessment, which the Academy provides as part of its service to the client, many of the incorporated subject areas can be provided in an off-campus format.

The Academy provides quality instruction through qualified personnel. We remain committed to providing customer service on schedule and maintain a constant level of service at a reasonable cost. The Academy asks that your organization consider our Industrial Services for your future training needs.

INCIPIENT AND STRUCTURAL FIRE BRIGADE TRAINING PROGRAMS

The following courses may be taken in a 40-hour format or individually, one at a time, dependent on prior scheduling commitments. Each module is designed to be eight hours in length, based upon 25 students participating in the field activities. Modules are often modified to meet the needs of those companies which seek additional or specialized training.

*This offering has been approved for EMS continuing education credit by the Mississippi Bureau of Emergency Medical Services.

Dates of Delivery: Contact Industrial Program Coordinator for dates of delivery and pricing.

MODULE I - *CHEMISTRY OF FIRE/PORTABLE FIRE EXTINGUISHERS*: Course Number IC 701

MODULE II - *RESCUE/SELF-CONTAINED BREATHING APPARATUS*: Course Number IC 702

MODULE III - *FIRE EQUIPMENT/FLAMMABLE LIQUIDS/FOAM*: Course Number IC 703

MODULE IV - *FIRE PROTECTION SYSTEMS/INTERIOR FIRE ATTACK*: Course Number IC 704

MODULE V - *FIRE BRIGADE STRUCTURE/STANDARDS REVIEW/ICS*: Course Number IC 705

INDUSTRIAL FIRE FIGHTER REFRESHER TRAINING: Course Number IC 711

INSTRUCTOR CHIEF NICK RAGAN