

Caroline County Regional Fire School 2020



“Accept the challenges so that you can feel the exhilaration of victory.” – General George S. Patton

March 28 & 29,
2020

Caroline County Middle School
13325 Devils Three Jump Rd.
Milford, VA 22514

Sponsored by the:

Virginia Department of Fire Programs
1005 Technology Park Drive
Glen Allen, Virginia 23059-4500
www.vafire.com

**Caroline County Dept. of Fire and
Rescue**
233 West Broaddus Ave
Bowling Green, VA 22427
www.CarolineFireRescue.org

**Caroline County
Volunteer Emergency Units
Organization**

Caroline County Regional Fire School

Caroline Middle School

March 28 – 29,
2020

The Virginia Department of Fire Programs, the Caroline County Department of Fire and Rescue and the Caroline County Volunteer Emergency Units Organization will conduct the 26th Annual Caroline County Regional School on March 28 and 29, 2020.

Registration Fee

A \$50.00 *NON-REFUNDABLE* registration fee is required to register for the Caroline County Regional School. This registration fee covers school costs, lunch on Saturday/Sunday and the Famous Steak Feast on Saturday night (March 28th).

Registration

- General registration will open on February 1, 2020.
- Registration for Caroline County Personnel **ONLY** will begin on January 17, 2020.

All pre-requisites are **required** at the time of registration. Registration fees must be turned in online at the time of registration. Please make sure that you **choose your 1st, 2nd, and 3rd option for classes** in case one of the classes you pick is full or cancelled.

***** THIS YEAR, PAPER REGISTRATION FORMS WILL NOT BE ACCEPTED. STUDENTS WILL BE ABLE TO ENROLL ONLINE AT <https://www.eventbrite.com/e/caroline-county-regional-spring-school-registration-88674978247>**

or by using the QR code below ***



Check In and Opening Ceremonies

All students must check-in at Caroline Middle School between 7:00 AM and 8:00 AM
Opening exercises will begin promptly at 8:00 AM

Books

Books and materials will be provided for classes as needed. Book fees may apply.

Directions

Using Interstate 95 north or south, use exit 104. Get off exit onto Route 207 (Rogers Clark Blvd) heading East towards Bowling Green. Travel Route 207 for six miles. Turn Right onto Devils Three Jump Rd (just past Caroline High School). Caroline Middle School is located on the left-hand side of the road.

Local accommodation information may be found at <http://www.visitcaroline.com/>

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Class Descriptions

Introduction to Technical Rescue (ITR) Module II

Course Description:

This course provides a foundation to prepare students for a wide variety of possible rescue operations based on objectives from NFPA 1006 *Standard on Technical Rescuer Professional Qualifications*, and NFPA 1670 *Standard on Operations and Training for Technical Search and Rescue Incidents*. Module 2 is a 16-hour introductory classrooms and practical program addressing job performance requirements of NFPA 1006. This program covers basic rescue skills in low angle environments, victim packaging, rope, knots, anchors, lowering systems, and haul systems. This program is designed for personnel who will support technical rescue incidents.

Prerequisites:

- 1) Students must be 18 years of age prior to attending.
- 2) Student must meet all Module 1 pre-requisites.
- 3) Student shall be psychologically, physically, and medically capable to perform assigned duties and functions at technical search and rescue incidents and to perform training exercises in accordance with NFPA 1500 *Standard on Fire Department Occupational Safety and Health Programs*, Chapter 10 – Medical and Physical Requirements.
- 4) Students shall review and become familiar with the material and directions provided in the Student Pre-Course Study Manual.

Equipment:

- 1) Helmet, Rescue Harness (Issued or approved by the student's sponsoring department, certified to one of the following standards – NFPA 1983 Class II, NFPA 1983 Class III, ANSI Z359.11 -2014)
- 2) Footwear appropriate for the environment and terrain
- 3) Gloves (Tight fitting gloves which allow manual dexterity)
- 4) Eye protection
- 5) Clothing appropriate for environmental conditions
- 6) Copy of the pre-course study guide

Hours 16 **Maximum Enrollment:** 24

Tactical Emergency Casualty Care

Description: NAEMT's Tactical Emergency Casualty Care (TECC) teaches EMS practitioners and other prehospital providers how to respond to and care for patients in a civilian tactical environment. It is designed to decrease preventable deaths in a tactical situation. The course presents the three phases of tactical care:

- Direct Threat Care that is rendered while under attack or in adverse conditions.
- Indirect Threat Care that is rendered while the threat has been suppressed, but may resurface at any point.
- Evacuation Care that is rendered while the casualty is being evacuated from the incident site.

The 16-hour classroom course covers the following topics:

- Hemorrhage control;
- Surgical airway control and needle decompression;
- Strategies for treating wounded responders in threatening environments;
- Caring for pediatric patients; and
- Techniques for dragging and carrying victims to safety.

NAEMT's TECC course is Endorsed by the American College of Surgeons, meets the guidelines established by the Committee on TECC and the updated National Tactical Emergency Medical Support Competency Domains. This course is accredited by CAPCE and recognized by NREMT.

Prerequisites: ALS and BLS Providers

Equipment Required: N/A **Hours:** 16 **Maximum Enrollment:** 24

EMS Officer I

Description: EMS Officer 1 is targeted for the entry-level officer serving as the Crew Leader or AIC. Upon successful completion of this course, the student will be able to effectively manage EMS agency operations and administration. Major topics covered in this course are the role of the EMS officer, facing compliance and accountability issues of the 21st century, recognizing and managing cultural diversity, safety/wellness, TQM, interfacing with the community and media at large, functional leadership, effective communications, incident management system(s) and managing multiple casualty incidents. Students will need a computer.

Prerequisites:

- Minimum age of 18
- Hold a current Virginia Certification of EMT or higher
- No corrective action from EMS Agency, OMD, or OEMS
- Submit copies of NIMS 100, 200, 700, 800 certificates or FEMA Transcript
- Review all video presentations
- Complete all homework assignments prior to class

Equipment Required: Bring a computer to class **Hours:** 16 **Maximum Enrollment:** 30

ICS 400: Intermediate ICS for Expanding Incidents

Description: This training is a 15-hour classroom course that provides training on the advanced resource management provisions of the Incident Command System (ICS). Course topics include explaining the special management challenges of major incidents such as unified command, multi-agency coordination systems, and emergency operations centers, as well as explaining how Multi-Agency Coordination Systems (MACS) are established and interface with emergency operations centers.

Prerequisites: Successful completion of accredited versions of: IS 100, IS 200, IS700, IS800 and ICS 300.

Equip. Required: None **Hours:** 15

Special Note: Class will meet Saturday (8am-5pm) and Sunday (8am-5pm).

Maximum Enrollment: 24

S-211 Portable Pumps and Water Use

Description: This course is designed to provide knowledge and skills to design, setup, operate, troubleshoot, and shut down portable water delivery systems. The focus is on portable pumps – it does not address water delivery for engines. Topics covered include: portable water delivery systems; equipment; roles and responsibilities; and system design and hydraulics. There is also a field exercise where students will apply what they learned in the classroom

Prerequisites: None

Equipment Required: None

Hours: 16 **Maximum Enrollment:** 20

Fire Marshall Academy 1033 Recertification Hours

Description: 16 hr. refresher course reviewing the legal right to be on the fire scene and other legal considerations associated with fire scene investigations. Saturday, March 28 and 8 hr. course on fire scene investigation safety considerations for the fire investigator Sunday, March 29.

Prerequisites: Fire Investigator 1033

Equipment Required: Paper, Pencil/Pen

Hours: 16

Maximum Enrollment: 24

Hazardous Material Operations TtT

Description: This course is designed to review the new Hazardous Materials program and give the Instructor the tools to deliver a quality program. Emphasis will be placed on scheduling, lecture, and fieldwork. This course will be taught in cooperation with Virginia Department of Emergency Management training staff.

Prerequisites: Fire Instructor II and Hazardous Materials Operations (Virginia Program) and successful completion of written pretest.

Equipment Required: Full PPE and SCBA

Hours: 16

Maximum Enrollment: 24

IAFC: Beyond Hoses and Helmets: Putting the Pieces Together

Description: Beyond Hoses & Helmets (BH&H) lays the ground work to prepare current and future leaders to lead and manage a fire department with creativity and innovation, as well as prepare them to address and face the unique challenges of leading a department staffed with volunteers, paid-on call and/or combination. Leaders of volunteer and combination staffed departments from a cross section of the fire service designed BH&H with leaders in mind whether they are compensated or not. If you are currently a leader or desire to promote within a volunteer or combination staffed organization, you should attend and encourage your officers to attend. BH&H is an interactive workshop presenting current successful techniques on retaining, recruiting, leading, marketing, building relationships and conflict resolution. The VCOS in cooperation with local fire department support can deliver this course in your region.

Prerequisite: None

Equipment Required: None

Hours: 16

NFA: Leadership in Supervision: Creating Environments for Professional Growth

Description: This two-day course presents the supervisory with the basic leadership skills and tools needed to perform effectively in the fire service environment. The course includes concepts related to a successful transition to supervisory and leadership roles, including concepts of adaptive leadership; change management; active followership; effective communication, including difficult conversations and advocacy-inquiry based dialogue; ethics; authority; power; decision-making; and active engagement through development of a personal plan.

Prerequisites: ICS 100, 200, 700, 800

Equipment Required: None

Hours: 14

Special Note: This is not a certification course. Students will receive VDFP training hours and a National Fire Academy Certificate of Training.

Mayday Firefighter Down

Description: A course designed for all members of the fire service from the Chief to the newest member. The mission of this class is to provide training for every member of the team to survive the worst event on the fire ground using self rescue techniques. The following subjects will be covered; “two-in/two-out”, self-rescue, flashover recognition, building construction for firefighter safety, firefighter accountability and other safe fire ground skills.

Prerequisites: Firefighter Level I.

Equipment Required: Full PPE and SCBA with a spare bottle.

Hours: 16

Special Note: The practical evolutions are very labor intensive and require a high degree of physical fitness.

Machinery Search and Rescue

Description: This 16 hour program includes classroom and practical training in common machinery anatomy, systematic approach to machinery rescue incidents, common machinery stabilization, incident hazard isolation, access and egress of common machinery, disentanglement of victims, the packaging and removal of victims, and operating as a member of a rescue team and directing rescue operations.

Note: This is not a certification course. Students will receive VDFP training hours and a Certificate of Attendance.

Prerequisites: 18 years of age, ITR Mod 1 & 2, VDFP Vehicle Rescue Level 1 (Operations).

Equipment Required: Full PPE

Hours: 16

Maximum Enrollment: 24 Students

Rope Rescue I

Description: This program meets or exceeds the requirements for NFPA 1006 Standard for Technical Rescuer Professional Qualifications, Chapter 6, Level I. The student will learn to perform at the Operations Level as specified in NFPA 1670, Standard on Operations and Training for Technical Search and Rescue Incidents, Chapter 5. This 32 hour program includes classroom and practical training in creating multi-point and fixed rope anchor systems, building and operating simple and compound mechanical advantage systems in the high angle environment, ascending and descending a fixed rope, packaging and moving a victim, tending a litter in the high angle environment, rescuing a stranded subject in the high angle environment, operating as a member of a rescue team and directing rescue operations

Note: This course will be **2 weekends** long. The classes will be held March 28th, March 29th, April 4th, and April 5th.

Prerequisites:

- 1) Students **MUST** be 18 years of age.
- 2) Successful completion of Virginia Department of Fire Programs Introduction to Technical Rescue Module 1 and Module 2 programs.
- 3) Students must be a member in good standing with a recognized fire, EMS, or public safety Agency/department to apply to attend.
- 4) Students shall be psychologically, physically, and medically capable to perform assigned duties and functions at technical search and rescue incidents and to perform training exercises in accordance with of NFPA 1500 Standard on Fire Department Occupational Safety and Health Program, Chapter 10-Medical and Physical Requirements.

Equipment Required: PPE

- a. NFPA rated fire helmet or technical rescue helmet
- b. Boots with adequate ankle protection.
- c. Gloves – tight fitting gloves which allow manual dexterity. (Structural firefighting gloves are NOT suitable for this class.)
- d. Eye protection
- e. Each student is required to provide a NFPA rated Class 2/Class 3 rescue harness certified per manufactures recommendations. Each harness will be inspected and approved by the VDFP Instructional Staff prior to use.
- f. Long pants (no loose fitting clothing while loaded on rope)

Hours: 32

Maximum Enrollment: 24

Response to Railway Incidents

Description: A course designed to review the strategy, tactics and techniques required to mitigate railway incidents involving locomotives, passenger and cargo trains. This course consists of 8 hours of classroom and 8 hours of practical instruction led by staff from VRE, Amtrak and CSX Railways. Practical skills will take place at the VRE railyard in Spotsylvania, VA.

Prerequisites: None

Equipment Required: Helmet, work gloves, eye protection and footwear with reinforced toes.

Hours: 16

Maximum Enrollment: 24

Thermal Imaging Camera Proficiency (Saturday, March 28th)

Description: This class will give participants an opportunity to take their knowledge of Thermal Imaging Cameras to the Street! The course will consist of a 1 to 1.5 hour presentation and Q and A Session followed Skills Labs that will allow participants to gain a better understanding of how their TIC functions as well as the limitations of Fire Service TICs. The Labs will focus on the following areas:

- Difference in Decision Making and Situational Awareness TICs
- Effects of Background Temperature
- Emissivity and how it affects your image
- Spot Size Ratio
- Identifying Convective Currents and their Hazards
- Sensitivity Modes and what they mean
- Field of View
- Indirect Heating
- Thermal Bridges
- Effects of wind and convective cooling
- The cavity effect
- Size-Up

Personnel will get an opportunity to hone their size up skills with a TIC using a Fire Behavior Prop and are encouraged to bring the TICs they use in their Department.

Prerequisites: None **Equipment Required:** None **Hours:** 8 **Maximum Enrollment:** 24

Lets Go! Improving Decision Making on the FireGround (Sunday, March 29th)

Description: Have you ever shown up at a call and felt like you are spinning wheels? On the fireground or the incident scene, time is of the essence- things get worse the longer we take to make a decision. There is a vast number of acronyms and memory-joggers to move from point A to B to C to... you get the picture. How many steps do we have to go through before we start to DO WORK? This discussion will help personnel hone their skills to make good, quick decisions on the fireground. Topics included in the presentation are the OODA Loop and breaking down the evolving fire scene to assess and observe 4 areas- Temperature, the Neutral Plane, Smoke, and Thermal Data, so that personnel can do the most important thing on the fireground- TAKE ACTION! If you have ever had difficulty explaining why you made a decision, this will give you a method to pass along and train future personnel to take action. You will learn it today and use it tomorrow. After the core presentation is complete, students will evaluate videos in an open forum to apply what they have learned in the presentation. This will also allow for an extensive Q and A Session and open dialog for personnel to share their experiences and learn from one another.

Prerequisites: None **Equipment Required:** None **Hours:** 6 **Maximum Enrollment:** 24

Written Testing and Skill Evaluator Class (Saturday, March 28th Morning)

Description: A course designed to cover all elements of the testing of the certification programs offered by VDFP. The class will allow all participants to understand the testing methodology used for accredited program testing. This will qualify those interested in assisting with the written test administration and skill evaluations.

Prerequisites: None

Equipment Required: None

Hours: 4

Maximum Enrollment: 24

Fire Officer I & II TtT (Saturday, March 28th Afternoon)

Description: A course designed to cover all elements of the NFPA Officer (2014) standard. This program will introduce the Navigate 2 software to be used by the instructor and students.

Prerequisites: Fire Officer II/ Instructor Level II, ICS 100, 200, 700, 800/ HazMat Ops, 5 years at the Company Officer Level. All candidates must take and pass the written pre-test ONLY available at the VDFP Division office.

Equip. Req: Pencil/Pen and Paper

Hours: 4 - 6

Standard/Reg: NFPA 1021

EMT-Basic Required Topic Hours

Description: This program will cover 20 hours of category one (1) national continued competency requirement (NCCR) hours that are required for Virginia EMT-Basic recertification. An additional 12 hours of the required category 2 (LCCR/ICCR) hours will also be provided. The Category 1 Areas provided will be:

- Area 11 Airway, Oxygenation & Ventilation 1.5 hrs.
- Area 12 Cardiovascular 6 hrs.
- Area 13 Trauma 1.5 hrs.
- Area 14 Medical 6 hrs.
- Area 15 Operations 5 hrs.

Prerequisites: BLS certification.

Equip Req: None

Hours: 24 Category 1 CE (NCCR) hours and 4 Category 2 CE (LCCR/ICCR) hours

Maximum Enrollment: 24 Students

Note: This class will meet on Saturday and Sunday (March 28th & 29th) and the following Saturday and Sunday (April 4th & 5th).

Additional EMS Educational Hours

The classes listed below will be taught in addition to the BLS Category 1 CEUs and signed up for individually. Students may take both educational tracks (i.e. BLS CEUs and Domestic Violence for First Responders). CEU credit will be given for these classes.

Strangulation Awareness for First Responders

Description: This class will review indicators of Domestic Violence, specifically by means of strangulation and best practices for first responders to assist and treat the patient.

Prerequisites: N/A **Equipment Required:** N/A **Hours:** 2.5 **Maximum Enrollment:** N/A

Left Ventricular Assist Device

Description: This class will review the most up to date information about LVADs, Patients and the LVAD Coordinators in an emergency. This class includes a hands on session.

Prerequisites: N/A **Equipment Required:** N/A **Hours:** 1 **Maximum Enrollment:** N/A

Point of Care Ultra Sound

Description: This class will be led by medical staff from VCU Medical Center and will review the use of Ultra Sound for first responders. This will include a hands on session for students.

Prerequisites: ALS certification Preferred. **Equipment Required:** N/A **Hours:** 2 **Maximum Enrollment:** 18 **Point of Care Ultra Sound - VCU Medical Staff**

Child Abuse

Description: This class will be led by medical staff from VCU Medical Center and will review indicators of child abuse and best practices for first responders.

Prerequisites: N/A **Equipment Required:** N/A **Hours:** 1.5 **Maximum Enrollment:** Unlimited

Aircare Advanced Airway

Description: Flight Crews from PHI AirCare 2 will provide a hands-on class to review and practice some infrequently used airway skills. These skills may not be used very often, but when you need to do them, you need to be confident. There will be several stations for students to perform the following skills:

- Difficult Intubations
- Needle and Surgical Cricothyrotomy
- Back up Airways & Adjuncts
- Tension Pneumothorax.

Prerequisites: ALS Providers Only **Equipment Required:** N/A **Hours:** 2 **Maximum Enrollment:** 18

Basics of Intrathoracic Pressure Regulation and CPR

Description: Staff from Zoll Medical will review the basic principles and best practices of Intrathoracic Pressure Regulation during CPR.

Prerequisites: N/A **Equipment Required:** N/A **Hours:** 1 **Maximum Enrollment:** N/A

Fire Fighter Down CPR: Special Considerations in the Resuscitation of a Downed Fire Fighter

Description: Staff from Zoll Medical will review best practices and special considerations encountered during the resuscitation of a fire fighter in cardiac arrest.

Prerequisites: N/A **Equipment Required:** N/A **Hours:** 2.5 **Maximum Enrollment:** N/A