



**DEPARTMENT OF FINANCIAL SERVICES**

Division of State Fire Marshal  
Bureau of Fire Standards and Training

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**Title: RN3266 FLUSAR Structural Collapse Rescue Operations**

**Effective Date: May 01, 2016**

**Revision Date: July 16, 2019**

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*Section I - Course Information*

**Course Title: FLUSAR Structural Collapse Rescue Operations**

**Course Number(s): RN 3266**

**Class Days/Time:** If being taught at the Florida State Fire College Campus 11655 NW Gainesville Road, Ocala, FL 34482 Bldg. C – Classrooms – Monday - Friday 8 a.m.- 5 p.m.

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*Section II - Points of Contact*

**Training Supervisor:**

Name: Frank Ennist

Email: [Frank.Ennist@myfloridacfo.com](mailto:Frank.Ennist@myfloridacfo.com)

Work Phone: 352-369-2838

Bldg. C Room 158

**Program Manager:**

Name:

Email:

Work Phone:

Bldg. C Room 141

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*Section III – Course Description*

Structural Collapse Rescue Operation level will give the student the skills and knowledge of rescuing and working in and around a collapsed building of light weight construction under NFPA 1670. The student will gain the knowledge to recognize hazards, how to use equipment, and implement techniques necessary to operate safely and effectively at incidents involving persons injured or entrapped in a light weight structural collapse. Students will learn the following through practical skills evolutions and scenarios:

- Scene size up
- Building marking techniques
- Victim identification and removal
- Building stabilization
- Breaching/breaking/moving heavy loads

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*Section IV - Course Materials, Grading, and Attendance*

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**Recommended Book:** Copy of NFPA 1670 and Florida Structural Collapse Rescue Operations Task Book (DFS-K4-2152)

**Prerequisite(s):** RN3268 FLUSAR Rope Rescue Operations

**Contact Hours:** This class has 40 contact hours.

**Continuing Educations Units (CEU's):** None

**Pre-Course Assignment:** None

**Required Materials:** A complete materials list can be obtained by going to the provided hyper link at: <http://www.flrules.org/Gateway/reference.asp?No=Ref-07254>

**NOTE: Students must bring gloves, hardhat and proper attire for rope rescue operation exercises.**

**Grading:** Students must achieve a minimum cumulative score of 70% to pass this course. Course grades are determined from assignments and activities including, but not limited to homework, projects, quizzes, exams, presentations and practical skills. The instructor also has the discretion to award **(but not deduct)** points based on course participation. Below is the breakdown of the final accumulative grading:

- Homework 20 points
- Final Written Exam 40 points
- Final Practical Exam 40 points

**Attendance:** Students are required to attend all sessions of the course.

- Excused absences - Students are permitted excused absences totaling no more than 10% of class (4 hours maximum); the instructor shall be the sole determining authority in the determination of an excused absence and may assign supplemental work to make up for missed class time.
- Unexcused absences - The instructor shall be the sole determining authority in the determination of an unexcused absence (i.e. “no call, no show”). The instructor has no obligation to offer the student an opportunity to make up assignments, including quizzes and/or exams, but may do so at his/her discretion.

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### *Section V - Instructor Qualifications*

As per Chapter 69A-37.065, Florida Administrative Codes, *Programs of Study and Vocational Courses*, instructors must meet the following qualifications to be authorized to teach this course:

F.A.C. 69A-37.065(7)(i)(3) Instructor Qualifications: An instructor providing training under this paragraph (i), must be qualified by the Bureau of Fire Standards and Training within the Division. Qualified instructors are:

3. Instructor Qualifications. An instructor providing training under this section must be qualified by the Bureau. All instructors shall submit an Instructor Approval Request Form DFS-K4-2168, at this link: [https://floridastatefirecollege.org/provider/pr\\_instructor\\_app.asp](https://floridastatefirecollege.org/provider/pr_instructor_app.asp), which is

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incorporated by reference in subsection 69A-37.039(2), F.A.C., and can be obtained where indicated in subsection 69A-37.039(1), F.A.C., and be approved by the Bureau prior to the first day of the course. Qualified instructors are:

- a. Instructors with requisite faculty credentials for the academic institution that is registered in the Florida Department of Education Statewide Course Numbering System to teach the course; or
- b. Instructors with requisite faculty credentials as determined by the United States Fire Administration – National Fire Academy; or
- c. Instructors with requisite faculty credentials as determined by the respective regionally accredited or nationally accredited university or college; or
- d. Instructors who hold an active Single Course Exemption Certification issued by the Division as outlined in subsection 69A-37.059(4), F.A.C.; or
- e. Florida Instructor I, II, or III, as defined in Rule 69A-37.059, F.A.C., who has completed the required courses under this paragraph (7)(i), which are recorded in the Bureau's database. These instructors are known as Adjunct Instructors and are approved to teach courses under the supervision of a Lead Instructor; or
- f. Florida Instructor I, II, or III, as defined in rule 69A-37.059, F.A.C., who has completed the required courses under this paragraph (7)(i) and has previously taught this course as an Adjunct Instructor which was recorded in the Bureau's database. These instructors are known as Lead Instructors.

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## ***Section VI – Job Performance Requirements Applicable Fire and Life Safety Initiatives***

Given information from discussion and reading materials, the student will satisfy the Job Performance Requirements (JPR) of the applicable National Fire Protection Association (NFPA) standards, as well as any applicable skill sheets.

NFPA 1670, *Standard on Operations and Training for Technical Search and Rescue Incidents*, 2014 Edition

### **Chapter 6 Structural Collapse Search and Rescue**

**6.1 General Requirements.** Organizations operating at structural collapse incidents shall meet the requirements specified in Chapter 4.

#### **6.2 Awareness Level.**

**6.2.1 Awareness** Organizations operating at the awareness level for structural collapse incidents shall meet the requirements specified in Sections 6.2 and 7.2 (awareness level for confined space search and rescue).

**6.2.2** Organizations operating at the awareness level for structural collapse incidents shall implement procedures for the following:

- (1) Recognizing the need for structural collapse search and rescue

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- (2)\*Identifying the resources necessary to conduct structural collapse search and rescue operations
- (3)\*Initiating the emergency response system for structural collapse incidents
- (4)\*Initiating site control and scene management
- (5)\*Recognizing the general hazards associated with structural collapse incidents, including the recognition of applicable construction types and categories and the expected behaviors of components and materials in a structural collapse
- (6)\*Identifying the 13 types of collapse patterns and potential victim locations
- (7)\*Recognizing the potential for secondary collapse
- (8)\*Conducting visual and verbal searches at structural collapse incidents, while using approved methods for the specific type of collapse
- (9)\*Recognizing and implementing a search and rescue/search assessment marking system, building marking system (structure/hazard evaluation), victim location marking system, and structure marking system (structure identification within a geographic area), such as the ones used by FEMA Urban Search and Rescue System
- (10) Removing readily accessible victims from structural collapse incidents
- (11)\*Identifying and establishing a collapse safety zone
- (12)\*Conducting reconnaissance (recon) of the structures(s) and surrounding area

### **6.3 Operations Level.**

**6.3.1** Organizations operating at the operations level for structural collapse incidents shall meet the requirements specified in Sections 6.2 and 6.3 as well as those in the following sections:

- (1) Sections 5.3 (operations level for rope rescue)
- (2) Section 7.3 (operations level for confined space search and rescue)
- (3) Section 8.3 (operations level for vehicle search and rescue)
- (4) Section 9.2 (awareness level for water search and rescue)
- (5) Section 11.3 (operations level for trench and excavation search and rescue)
- (6) Section 12.3 (operations level for machinery search and rescue)

**6.3.2** The organization shall have members capable of recognizing hazards, using equipment, and implementing techniques necessary to operate at structural collapse incidents involving the collapse or failure of ordinary construction (light frame, unreinforced masonry construction, and reinforced masonry construction).

**6.3.3** Organizations operating at the operations level for structural collapse incidents involving light frame ordinary construction and reinforced and unreinforced masonry construction shall develop and implement procedures for the following:

- (1)\*Sizing up existing and potential conditions at structural collapse incidents
- (2)\*Recognizing unique collapse or failure hazards
- (3)\*Conducting hasty primary and secondary search operations (low and high coverage) intended to locate victims trapped on, inside, and beneath collapse debris
- (4)\*Accessing victims trapped inside and beneath collapse debris
- (5)\*Performing extrication operations involving packaging, treating and removing victims trapped within and beneath collapse debris
- (6) Stabilizing the structure and performing rescue shoring operations in order to stabilize the structure, if necessary.

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**Section VII –Suggested Plan of Instruction**

The following is the plan of instruction used during course offerings held at the Florida State Fire College. It also serves as the suggested instructional block format for other approved training providers who use the recommended text book. All class offerings **must** satisfy the JPRs listed in *Section VI – Job Performance Requirements* regardless of textbook used.

<b>Day/Date</b>	<b>Chapters</b>	<b>Activities</b>
Day 1	<b>Class Introductions and Orientation</b> Structural Collapse Operations Level Lecture Equipment (overview/operation, to include shoring tools) Shoring Operations Level Evolutions	<ul style="list-style-type: none"> <li>• Introductions</li> <li>• Practical skills</li> <li>• Homework</li> </ul>
Day 2	<b>Review of Homework</b> Victim Packaging and Moving Lifting and Moving Lecture Lifting and Moving Evolutions Evolutions	<ul style="list-style-type: none"> <li>• Practical skills</li> <li>• Homework</li> </ul>
Day 3	<b>Review of Homework</b> Breaking and Breaching Lecture Breaking and Breaching Evolutions	<ul style="list-style-type: none"> <li>• Practical skills</li> <li>• Homework</li> </ul>
Day 4	<b>Review of Homework</b> Collapse Evolutions	<ul style="list-style-type: none"> <li>• Practical skills</li> <li>• Homework</li> </ul>
Day 5	<b>Review of Homework</b> <b>Final Written Exam</b> <b>Final Practical Exam</b> <b>Course Completion</b>	<ul style="list-style-type: none"> <li>• Final written exam</li> <li>• Final practical exam</li> </ul>

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**Section VIII – Final Practical and Grading Rubric**

**Description of Assignment:**

The Final Practical Skills Check-off is designed for the student to demonstrate competency of the skills identified through the following JPR's in NFPA 1670 utilizing the state task book for completion.

**Format and Grading of Assignment:**

Students will be given a practical skills evaluation based on those acquired skills learned under NFPA 1670 JPRs. A Pass/Fail will be applied based on the State task book assignments for the final course grade.

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*Section IX – Review Date and Author*

May 01, 2016

Unknown

July 16, 2019

Kenneth Kurth

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