

GEORGIA FIREFIGHTERS STANDARDS AND TRAINING COUNCIL
STRUCTURAL COLLAPSE RESCUE
 PERFORMANCE EVALUATION SHEET



Objective(s): 9.1.10/9.1.11/9.2.10/9.2.11

Primary Task: **USING LEVERS**

Skill No. UL-1

INSTRUCTIONS TO MONITOR/EVALUATOR

1. The candidate will be provided with heavy object, fulcrum, and lever.
2. The candidate will work alone.
3. The candidate will be given the instructions below before beginning the exercise.
4. **EVALUATOR CHOICE:** (1) Class one (2) Class two (3) Class three

INSTRUCTIONS TO CANDIDATE

1. "The candidate, as directed by the evaluator, shall demonstrate the use of the lever with 100% accuracy."

INDIVIDUAL PERFORMANCE

1. *Wears appropriate PPE.*
2. *Identifies any potential hazards.*

CLASS ONE LEVER

3. *Recognizes the use of the lever is for decided advantage on a heavy load*
4. *Places the fulcrum between the load and force applied.*
5. *Applies force in a downward motion lifting load up.*

CLASS TWO LEVER

3. *Recognizes the use of the lever is for moving the load on a horizontal or near horizontal plane.*
4. *Places the load between the fulcrum and the force.*
5. *Applies force in an upward motion causing the load to slide forward.*

CLASS THREE LEVER

3. *Recognizes the use of the lever is for moving lighter loads when force can be sacrificed for distance.*
4. *Places the force between the fulcrum and the load.*
5. *Applies force in an upward motion allowing the load to be placed in any direction needed.*

Total steps candidate must complete to Pass **5**

SAFETY IS PARAMOUNT!!!

Prevent or prohibit any unsafe acts.

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Remember, you are an evaluator, not a trainer...

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Objective(s): 9.1.6/9.1.8/9.1.13/9.2.10/9.2.13

Primary Task: **BOX CRIBBING**

Skill No. BC-1

INSTRUCTIONS TO MONITOR/EVALUATOR

1. The candidate will be provided with 4X4 or 6X6 cribbing.
2. The candidate will work alone.
3. The candidate will be given the instructions below before beginning the exercise.
4. **EVALUATOR CHOICE:** 4x4 cribbing (1) 2 member by 2 member (2) 3 member by 3 member
 6x6 cribbing (3) 2 member by 2 member (4) 3 member by 3 member

INSTRUCTIONS TO CANDIDATE

1. "The candidate, given 4X4 or 6X6 lumber, shall demonstrate the setup of the box cribbing with 100% accuracy."

INDIVIDUAL PERFORMANCE

1. *Wears appropriate PPE.*
2. *Identifies any potential hazards.*
3. *Starts all boxes with solid platform for even distribution of weight.*
4. *Maintains correct alignment of cribbing for solid column of load support.*
5. *Correctly goes to maximum height for size of cribbing.*
6. *Ensures proper overlap of 4" on cribbing for slow crush type failure*
7. *Correctly calculates the amount of weight cribbing will support.*
8. *Safely builds cribbing avoiding any potential personal injury.*

Total steps candidate must complete to Pass **8**

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Objective(s): 9.1.6/9.1.8/9.2.6/9.2.8

Primary Task: **CORE DRILL SETUP AND OPERATION**

Skill No. CD-1

INSTRUCTIONS TO MONITOR/EVALUATOR

1. The candidate will be provided with core drill, bits, and water supply.
2. The candidate will work alone.
3. The candidate will be given the instructions below before beginning the exercise.

INSTRUCTIONS TO CANDIDATE

1. "The candidate, given the core drill and bits, shall demonstrate the setup and operation of the tool with 100% accuracy."

INDIVIDUAL PERFORMANCE

1. *Wears appropriate PPE.*
2. *Identifies any potential hazards. (ie. Damaged tool, damaged bits, and loose debris)*
3. *Correctly inspects fuel levels and oil levels for operation if applicable.*
4. *Properly attaches bit for application.*
5. *Starts unit up*
6. *Correctly applies water supply and ensures correct water flow to tool.*
7. *Safely operates tool for application.*
8. *Safely shuts unit down and inspects for damage.*

Total steps candidate must complete to Pass **8**

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Objective(s): 9.1.6/9.1.8/9.1.12/9.2.6/9.2.8/9.2.12/9.2.14 Primary Task: **ELECTRIC TOOL ID AND SETUP**
Skill No. ET-1

INSTRUCTIONS TO MONITOR/EVALUATOR

1. The candidate will be provided with various electric tools, bits, power supply and cords.
EVALUATOR CHOICE (rotary drill, hammer drill, or breaker)
2. The candidate will work alone.
3. The candidate will be given the instructions below before beginning the exercise.

INSTRUCTIONS TO CANDIDATE

1. "The candidate, given the electric tool, shall demonstrate the setup and operation of the tool with **100% accuracy.**"

INDIVIDUAL PERFORMANCE

1. *Wears appropriate PPE.*
2. *Identifies any potential hazards. (ie. Water hazards, frayed cords, damaged tool, damage bits and loose debris)*
3. *Identifies correct tool for operation.*
4. *Ensures power supply is operational*
5. *Makes sure power supply is disconnected from tool before changing bit.*
6. *Re-connects power supply for operation*
7. *Makes sure switch on tool is set properly for assigned use.*
8. *Safely operates tool for application.*

Total steps candidate must complete to Pass **8**

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GEORGIA FIREFIGHTER STANDARDS AND TRAINING STRUCTURAL COLLAPSE EXAM PREPARATION GUIDE



Structural Collapse Level I & II

INSTRUCTIONS TO THE CANDIDATE

The information listed below will help in your preparation for the written and skills test for Structural Collapse Rescue.

PREREQUISITE TO CHALLENGE TEST

Successfully, Completed a training course designed to meet or exceed the requirements defined in chapter 9 of the **2008 Edition of NFPA 1006**, Technical Rescuer Professional Qualifications, Structural Collapse Rescue.

WRITTEN TEST MATERIALS

1. FEMA Structural Collapse 2007 Edition
2. Brannigan's Building Construction for the Fire Service 4th Edition
3. NFPA 1006, Standard for Technical Rescuer Professional Qualifications, 2008 Edition, Chapter 9.

SKILLS TEST MATERIALS

Complete skills located on our website @ gfstconline.org under Structural Collapse.

STATE CERTIFICATION REQUIREMENTS

No State Certification available.

PRO BOARD

1. Pass a 100 question multiple choice written test with a 70% pass rate.
2. Pass a skills test.
3. National certification will only be awarded to candidates that have successfully completed both written and skills examinations.

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Objective(s): 9.2.8/9.2.12

Primary Task: **HYDRAULIC UNIT OPERATION**

Skill No. HYD-1

INSTRUCTIONS TO MONITOR/EVALUATOR

1. The candidate will be provided with hydraulic unit, breakers, drills, rotary saw, chain saw, and water supply.
2. The candidate will work alone.
3. The candidate will be given the instructions below before beginning the exercise.

INSTRUCTIONS TO CANDIDATE

1. "The candidate, given the hydraulic unit and various tools, shall demonstrate the setup and operation of the tool with 100% accuracy."

INDIVIDUAL PERFORMANCE

1. Wears appropriate PPE.
2. Identifies any potential hazards. (ie. Damaged tool, damage bits, damaged blades, chain tension and loose debris)
3. Correctly inspects fuel levels and oil levels for operation.
4. Properly connects hydraulic hoses to unit and tool.
5. Starts unit up
6. Engages hydraulic pump to operate tool.
7. Correctly applies water supply and ensures correct water flow to tool if applicable.
8. Safely operates tool for application.
9. Properly disengages hydraulic pump to change bit, blades, or chain.
10. Safely shuts unit down and inspects for damage.

Total steps candidate must complete to Pass **10**

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Objective(s): 9.1.6/9.2.6/9.2.14

Primary Task: **LIGHT AND HEAVY SHORING NAIL PATTERNS**

Skill No. NP-1

INSTRUCTIONS TO MONITOR/EVALUATOR

1. The candidate will be provided with half gussets, gussets, 2ft. cleats, 8D and 16D nails, and black marker
2. The candidate will work alone.
3. The candidate will be given the instructions below before beginning the exercise.

INSTRUCTIONS TO CANDIDATE

1. "The candidate given the material specified shall demonstrate the correct nail pattern with 100% accuracy."

Evaluator Choice: A: Half Gusset B: Full Gusset C: 2FT. Cleat

INDIVIDUAL PERFORMANCE

1. *Wears appropriate PPE.*
2. *Identifies the correct material assigned by the evaluator*
3. *Identifies correct position of material on intersecting lumber if applicable*
4. *Correctly chooses the appropriate nails for specified wood*
5. *Demonstrates nail pattern specified by FEMA specifications:*
 - a. *half gusset 4x4 nail pattern*
 - b. *full gusset 8x5 nail pattern*
 - c. *2ft. cleat 14 nail pattern*

Total steps candidate must complete to Pass **5**

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Objective(s): 9.1.1/9.1.2/9.1.5/9.2.5

Primary Task: **SEARCH ASSESSMENT MARKINGS**

Skill No. SAM-1

INSTRUCTIONS TO MONITOR/EVALUATOR

1. The candidate will be provided with building to search and equipment necessary for creating markings.
2. The candidate will work alone.
3. The candidate will be given the instructions below before beginning the exercise.

INSTRUCTIONS TO CANDIDATE

1. "The candidate given the appropriate equipment shall search and mark the building accordingly with 100% accuracy."

INDIVIDUAL PERFORMANCE

1. *Wears appropriate PPE.*
2. *Confirms engineering markings for building search.*
3. *Identifies any potential hazards.*
4. *Determines method by which search shall be conducted such as audible/hailing, search cameras, and/or acoustic/seismic equipment*
5. *Correctly marks building before entering*
6. *Ensures search is systematic and thorough*
7. *Exits building and completes markings on building*
8. *Left Quadrant used for Task Force Identifier*
9. *Top Quadrant used for Time and Date personnel exited the building*
10. *Right Quadrant used for any Personal Hazards Found*
11. *Bottom Quadrant used for any Live or Dead Victims still inside or 0 for none*

Total steps candidate must complete to Pass **11**

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Objective(s): 9.1.5/9.1.8/9.2.5

Primary Task: **SEARCH INSTRUMENTS**

Skill No. SI-1

INSTRUCTIONS TO MONITOR/EVALUATOR

1. The candidate will be provided with building to search and equipment necessary for visual and/or audible search. **EVALUATOR CHOICE** (Search cameras or acoustic/seismic equipment)
2. The candidate will work alone.
3. The candidate will be given the instructions below before beginning the exercise.

INSTRUCTIONS TO CANDIDATE

1. "The candidate given the search device shall demonstrate the operation of the equipment with 100% accuracy."

INDIVIDUAL PERFORMANCE

1. *Wears appropriate PPE.*
2. *Identifies any potential hazards.*
3. *Acquires correct device for search assigned.*
4. *Properly sets device up for operation*
5. *Ensures that device is operating properly and(if applicable) batteries are fully charged*
6. *Ensures search is systematic and thorough*

Total steps candidate must complete to Pass **6**

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 PERFORMANCE EVALUATION SHEET



Objective(s): 9.1.10/9.1.11/9.2.10/9.2.11/9.2.16

Primary Task: **SLING ARRANGEMENT**

Skill No. SA-1

INSTRUCTIONS TO MONITOR/EVALUATOR

1. The candidate will be provided with heavy object, swivels, and various slings.
2. The candidate will work alone.
3. The candidate will be given the instructions below before beginning the exercise.
4. **EVALUATOR CHOICE:** (1) single point sling (2) basket sling (3) choker sling

INSTRUCTIONS TO CANDIDATE

1. "The candidate shall demonstrate the setup of the sling with 100% accuracy."

INDIVIDUAL PERFORMANCE

1. *Wears appropriate PPE.*
2. *Identifies any potential hazards.*
3. *Correctly calculates weight of debris and center of gravity.*
4. *Ensures proper connection to debris as assigned by evaluator (single point, basket, or choker)*
5. *Gives correct hand signals to equipment operator to move to assigned location.*
6. *Safely places debris where needed.*
7. *Safely disconnects sling from debris*

Total steps candidate must complete to Pass **7**

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GEORGIA FIREFIGHTER STANDARDS AND TRAINING
STRUCTURAL COLLAPSE
STATION BREAKDOWN



STATION 1

**BC-1 BOX CRIBBING OR
ET-1 ELECTRIC TOOLS OR
HYD-1 HYDRAULIC TOOLS**

STATION 2

**CD-1 CORE DRILL OR
SI-1 SEARCH INSTRUMENTS OR
SAM-1 SEARCH ASSESSMENT MARKINGS**

STATION 3

**NP-1 NAIL PATTERNS OR
SA-1 SLING ARRANGEMENT OR
UL-1 UTILIZING LEVERS**

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GEORGIA FIREFIGHTER STANDARDS AND TRAINING COUNCIL

STRUCTURAL COLLAPSE SKILLS TESTING **POLICIES AND PROCEDURES**

1. Candidates will be expected to conduct themselves as professionals. **NO UNPROFESSIONAL ATTITUDES WILL BE TOLERATED.**
2. All skills must be successfully completed to achieve certification.
3. Unsuccessful first attempts will result in a redo.
4. Redo evaluations will be set up exactly as the original attempt, with a different evaluator assigned.
5. Redos of more than one skill constitutes a failure for the entire skills assessment.
6. An unsuccessful redo attempt constitutes failure for the entire skills assessment.
7. Candidates will be assigned to a staging area, where the group can be observed by the test monitor. Candidates will remain in staging, if not actively assigned to a skills test station. Candidates will be permitted breaks. These breaks will occur on an individual basis with one candidate at a time allowed on break.
8. Candidates will not be allowed to have any reference materials on site during a skills evaluation. Reference materials include, but are not limited to: Skill sheets, Lesson Plans, Notes, or Study aides.
9. Discussing any portion of the test outside of skill stations is prohibited at all times during the test administration.
10. Candidates will travel directly to and return directly from a skills station.
11. Candidates will not be allowed to view "Candidate Worksheets" during the skills event. However, at the end of the evaluation, or after being notified of a failure, candidates will be allowed to review their worksheet.

12. Candidates will be given verbal instructions prior to beginning each skills objective. Candidates **MUST** physically demonstrate each objective. It will be understood some objectives will require simulations, such as nail patterns. However, if the candidate only verbalizes, when the ability to demonstrate is available, he or she will not successfully complete the objective. Verbalization is encouraged when making emphasis on a point of clarity.
13. Candidates will refrain from having conversations with evaluators. However, if a candidate needs clarification on an objective, the evaluator can clarify the objective.
14. Candidates will be allowed to request one “re-start” per skill.
15. Candidates will be informed as to redo, pass, and fail status by the test monitor only. DO NOT ask anyone else for results.
16. Candidates who fail a skills event will be given an opportunity to appeal the results by submitting a written report of the event to Georgia Firefighter Standards and Training Council, 1000 Indian Springs Drive, Forsyth, Georgia 31029 within 15 days of the event. Candidates having a successful appeal will only be required to complete the remaining skills not completed during the original attempt. Candidates who choose not to appeal or those receiving an unsuccessful appeal will be required to re-test on ALL objectives at another scheduled event.
17. National Certification will only be awarded to candidates that have successfully completed both written and skills examinations. Candidates have one year from the written test date to challenge the skills test portion of the evaluation. If the candidate does not successfully complete the skills exam within one year, the written score will no longer be valid.
18. ANY VIOLATION OF THIS POLICY WILL RESULT IN IMMEDIATE FAILURE FOR THE EVENT. The test monitor will have ultimate on-site authority when making final decisions.



GEORGIA FIREFIGHTER STANDARDS AND TRAINING
STRUCTURAL COLLAPSE
EQUIPMENT STATION BREAKDOWN



STATION 1

4x4 and 6x6 Box cribbing 16 pieces of each
Power source, cords, various tools, various bits
Hydraulic unit, hoses, breaker, drill, saws, bits, blades, chains, water source, garden hose
Concrete slab

STATION 2

Core drill, bits, water source and garden hose
Various search instruments and accessories needed
Paper, black marker, area to search
Concrete slab

STATION 3

Half Gussets, full gussets, 2ft. cleat, 8d and 16d nails, black marker
Sling and heavy object
Pinch bar and heavy object

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