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| **STRUCTURAL COLLAPSE RESCUE TECHNICIAN TASK BOOK** | | | | | | | | | |
| **Please type or print legibly.** | | | | | | | | | |
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| NAME: LAST | FIRST | | | | MI | | DATE OF BIRTH | | |
|  |  | | | |  | |  | | |
| HOME ADDRESS | CITY | | | | STATE | | ZIP CODE | | |
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| EMAIL ADDRESS | PHONE NUMBER | | | | FCDICE STUDENT ID NUMBER | | | | |
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| DATE TASK BOOK INITIATED | | | | DATE TASK BOOK COMPLETED | | | | | |
|  | | | | | | | | | |
| **ATTEST**: The information contained in this document is true and correct to the best of my knowledge. I understand that falsification of this document is subject to penalty and is cause to deny or revoke this certification. | | | | | | | | | |
| *Signature of Applicant* | | | *Date* | | | | | | |
|  | | | | | | | | | |
| *Signature of Fire Chief, Agency Head or Designee* | | | *Printed Name of Fire Chief, Agency Head or Designee* | | | | | | *Date* |
|  | | | | | | | | | |
| **PURPOSE OF THIS TASK BOOK**: This task book is an evaluative tool designed to document that a candidate has demonstrated certain requisite skills required to meet a specific NFPA 1670 job performance requirement. Selected skill objectives in this task book are a supplement to the student learning outcomes and objectives met by successfully completing the Structural Collapse Rescue Technician program curriculum. | | | | | | | | | |
| **EXPECTATION OF CANDIDATE**:The Structural Collapse Rescue Technician candidate is solely responsible for the maintenance, completion, and submission of this task book. | | | | | | | | | |
| **EXPECTATIONS OF EVALUATOR**: The evaluator is a direct supervisor, training officer or person designated by Fire Chief or Agency Head who is responsible for overseeing the performance or activity of the candidate. The evaluator documents first hand observation of the requisite skills of candidate, and attests by signature when task(s) has been demonstrated. Evaluators must sign and enter their Student ID numbers on this form. | | | | | | | | | |
|  | | | | | | | | | |
| **STRUCTURAL COLLAPSE RESCUE TECHNICIAN** | | | | | | | | | |
| ***General Reference to NFPA 1670 Standard*** | | ***Evaluator Signature***  ***(Print & Sign Name)*** | | | | ***Student***  ***ID Number*** | | ***Date*** | |
| Coordinate the use of heavy equipment at a structural collapse incident | |  | | | |  | |  | |
| Conduct search operations intended to locate victims trapped inside and beneath collapsed debris | |  | | | |  | |  | |
| Stabilize a collapsed heavy construction type structure as a member of a team | |  | | | |  | |  | |
| Breach heavy structural components | |  | | | |  | |  | |
| Cut through structural steel | |  | | | |  | |  | |
| Identify the 13 types of collapse patterns and potential victim locations | |  | | | |  | |  | |
| Develop a structural collapse rescue incident action plan for both light frame and heavy construction type structures | |  | | | |  | |  | |
| Access victims trapped inside and beneath collapsed debris | |  | | | |  | |  | |
| Perform extrication operations involving packaging, treating, and removing victims trapped within and beneath collapsed debris | |  | | | |  | |  | |
| Stabilize a structure and perform rescue shoring operations in order to stabilize the structure in all types of construction | |  | | | |  | |  | |
| Release a victim from entrapment by components of both light frame and heavy construction type collapsed structures | |  | | | |  | |  | |
| Remove a victim from both light frame and heavy construction type collapse incidents | |  | | | |  | |  | |
| Lift and move a heavy load as a member of a team | |  | | | |  | |  | |
| **STRUCTURAL COLLAPSE RESCUE TECHNICIAN BREACHING AND BREAKING** | | | | | | | | | |
| ***General Reference to NFPA 1670 Standard*** | | ***Evaluator Signature***  ***(Print & Sign Name)*** | | | | ***Student***  ***ID Number*** | | ***Date*** | |
| Describe the technique for cutting post-tensioned cables | |  | | | |  | |  | |
| Demonstrate proper set up of an exothermic torch | |  | | | |  | |  | |
| Demonstrate proper use of an exothermic torch | |  | | | |  | |  | |
| Demonstrate a piercing cut with an exothermic torch | |  | | | |  | |  | |
| Demonstrate a line cut with an exothermic torch | |  | | | |  | |  | |
| Trouble shoot an exothermic torch | |  | | | |  | |  | |
| Demonstrate the set up of an oxy/acetylene/MAPP torch | |  | | | |  | |  | |
| Demonstrate a piercing cut with an oxy/acetylene/MAPP torch | |  | | | |  | |  | |
| Demonstrate a line cut with an oxy/acetylene/MAPP torch | |  | | | |  | |  | |
| Trouble shoot an oxy/acetylene/MAPP torch | |  | | | |  | |  | |
| Demonstrate cutting tensioned cable or wire rope | |  | | | |  | |  | |
| Demonstrate the proper set up of a gasoline/oxygen torch | |  | | | |  | |  | |
| Demonstrate proper light up of a gasoline/oxygen torch | |  | | | |  | |  | |
| Demonstrate a plunge cut with a gasoline/oxygen torch | |  | | | |  | |  | |
| Demonstrate a line cut with a gasoline/oxygen torch | |  | | | |  | |  | |
| Trouble shoot a gasoline/oxygen torch | |  | | | |  | |  | |
| Breach heavy structural components | |  | | | |  | |  | |
| Cut through structural steel | |  | | | |  | |  | |
| Identify pre-stressed concrete | |  | | | |  | |  | |
| Identify post-stressed concrete | |  | | | |  | |  | |
| Differentiate between tension, shear and compression | |  | | | |  | |  | |
| Correctly calculate the weight of a concrete slab | |  | | | |  | |  | |
| Demonstrate proper application of wetting diamond blades | |  | | | |  | |  | |
| Identify the difference between wet and dry cut diamond blades | |  | | | |  | |  | |
| Demonstrate relief cuts | |  | | | |  | |  | |
| Demonstrate a bevel cut for a lift out | |  | | | |  | |  | |
| Demonstrate a step cut | |  | | | |  | |  | |
| Demonstrate a stitch cut breach | |  | | | |  | |  | |
| Demonstrate a dirty breach | |  | | | |  | |  | |
| Demonstrate a bolting for a lift out | |  | | | |  | |  | |
| Demonstrate proper use of a rotary saw | |  | | | |  | |  | |
| Demonstrate proper use of a rotary hammer | |  | | | |  | |  | |
| Demonstrate proper use of breakers | |  | | | |  | |  | |
| Demonstrate the set up of the Stanley Hydraulic System | |  | | | |  | |  | |
| Trouble shoot the Stanley Hydraulic System | |  | | | |  | |  | |
| Demonstrate the proper technique for a plunge cut | |  | | | |  | |  | |
| Trouble shoot a rail saw (Stanley) | |  | | | |  | |  | |
| Trouble shoot breakers (Stanley) | |  | | | |  | |  | |
| Demonstrate proper use of bolt cutters | |  | | | |  | |  | |
| Demonstrate proper use of whizzer saw | |  | | | |  | |  | |
| Demonstrate proper use of rebar cutter | |  | | | |  | |  | |
| Demonstrate proper use of the DS-11 diamond chain saw | |  | | | |  | |  | |
| Trouble shoot DS-11 chainsaw, replace and tighten chain | |  | | | |  | |  | |
| Demonstrate the proper use of a reciprocating saw | |  | | | |  | |  | |
| Demonstrate proper use of a core drill | |  | | | |  | |  | |
| Trouble shoot a core drill | |  | | | |  | |  | |
|  | | | | | | | | | |
| **STRUCTURAL COLLAPSE RESCUE TECHNICIAN LIFTING AND MOVING** | | | | | | | | | |
| ***General Reference to NFPA 1670 Standard*** | | ***Evaluator Signature***  ***(Print & Sign Name)*** | | | | ***Student***  ***ID Number*** | | ***Date*** | |
| Demonstrate crane hand signals | |  | | | |  | |  | |
| Demonstrate the use of an inclined plane (wedge and ramp) | |  | | | |  | |  | |
| Demonstrate the proper use of wedges | |  | | | |  | |  | |
| Demonstrate the proper use of box cribbing | |  | | | |  | |  | |
| Demonstrate the use of a come-along | |  | | | |  | |  | |
| Demonstrate the proper use of pipes as rollers | |  | | | |  | |  | |
| Assemble a high pressure airbag system | |  | | | |  | |  | |
| Demonstrate the ability to accurately calculate load weights | |  | | | |  | |  | |
| Lift a heavy load as part of a team | |  | | | |  | |  | |
| Move a heavy load as part of a team | |  | | | |  | |  | |
|  | |  | | | |  | |  | |
| **STRUCTURAL COLLAPSE RESCUE TECHNICIAN SHORING** | | | | | | | | | |
|  | | | | | | | | | |
| ***General Reference to NFPA 1670 Standard*** | | ***Evaluator Signature***  ***(Print & Sign Name)*** | | | | ***Student***  ***ID Number*** | | ***Date*** | |
| Construct a cutting table and wedge jig | |  | | | |  | |  | |
| Determine raker shore angle & length (45 degree) | |  | | | |  | |  | |
| Demonstrate cutting field wedges | |  | | | |  | |  | |
| Demonstrate cutting gusset plates  Demonstrate proper nail patterns | |  | | | |  | |  | |
| Construct a solid sole raker shore | |  | | | |  | |  | |
| Construct a split sole raker shore | |  | | | |  | |  | |
| Construct a raker shore with plywood backing | |  | | | |  | |  | |
| Construct anchor systems | |  | | | |  | |  | |
| Construct diagonal bracing | |  | | | |  | |  | |
| Construct a flying raker shore | |  | | | |  | |  | |
| Construct a flying shore | |  | | | |  | |  | |
| Construct a double raker shore | |  | | | |  | |  | |
| Construct a laced post shore | |  | | | |  | |  | |
| Construct a sloped floor shore on a hard surface | |  | | | |  | |  | |
| Construct a sloped floor shore on an earth surface | |  | | | |  | |  | |
| Demonstrate the proper use of pneumatic shores | |  | | | |  | |  | |
| Demonstrate the proper use of box cribbing on a sloped floor | |  | | | |  | |  | |
|  | |  | | | |  | |  | |