

FIRE CONTROL 3A

Approved and Adopted by the
Office of State Fire Marshal



Recommended for adoption by the
Statewide Training and Education
Advisory Committee and the
State Board of Fire Services



COURSE GUIDE

APRIL 2008



Fire Control 3A

Structural Firefighting in Acquired Structures

**Primary Instructor
Position Task Book**

April 2008

QUALIFICATION RECORD

POSITION: FIRE CONTROL 3A – PRIMARY INSTRUCTOR TRAINEE

<i>Course Guide Section</i>	MODULE 1: ACQUIRING STRUCTURES	CODE	EVALUATION RECORD #	EVALUATOR: Initial & date upon completion of task
	<i>TASK 1: BUILDING SIZE-UP</i>			
5	1. Distinguish the type of building	I		
5	2. Identify the number of stories	I		
5	3. Identify the floor construction	I		
5	4. Identify the wall construction	I		
5	5. Identify the roof construction	I		
5	6. Identify holes in construction	I		
5	7. Inspect stairs and stair wells	I		
5	8. Identify the attic space	I		
5	9. Identify the basement	I		

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5	10. Locate chimney(s)	I		
5	11. Locate HVAC units	I		
5	12. Identify facades(s)	I		
5	13. Identify window types	I		
5	14. Identify doors	I		
5, 13, 15, 16	15. Locate pressure vessels	I		
5	16. Locate water heater(s)	I		
5	17. Secure fire suppression systems	I		
5	18. Locate and remove pre-action system air cylinders	I		
5	19. Identify potential asbestos	I		

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5, 15, 16	20. Determine exiting ability	I		
5	21. Complete a lead paint survey	I		
5, 6	22. Define other hazardous substances	I		
5	23. Identify exposures	I		
5, 14	24. Identify overhead wires	I		
5	25. Identify vegetation exposures	I		
5	26. Identify vehicles	I		
5	27. Identify insect and other environmental hazards	I		
5, 20	28. Evaluate local weather	I		
5	29. Identify utilities	I		

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5	30. Identify railroad impact	I		
5, 20	31. Evaluate airports or flight paths	I		
5	32. Identify septic tanks	I		
5	33. Identify propane tanks	I		
5	34. Determine a traffic flow plan	I		
5	35. Identify parking locations	I		

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<i>Course Guide Section</i>	MODULE 2: DOCUMENTATION	CODE	EVALUATION RECORD #	EVALUATOR: Initial & date upon completion of task
	TASK 2: DOCUMENTATION			
6	1. Establish contact with local AQMD authority	<i>I</i>		
6, 7	2. Determine local regulations governing live fire training	I		
6, 7	3. Assure that all asbestos has been removed and obtain copies of documentation from licensed contractor	I		
6, 7	4. Provide copies of documentation and NESHAP report to AQMD, State EPA, and Fed EPA	I		
6, 7	5. Obtain variance from AQMD (if required to burn on a no burn day)	I		
8	6. Notify all neighboring properties that have a potential of being affected by the burn. Notification must be in writing 10 days prior to the burn.	I		
8	7. SFT course request	<i>I</i>		
7	8. Fit test documentation for all students	I		
7	9. Department letter of approval for training	I		
8	10. Completed documentation and notifications as outlined in Section 8 of course guide	I		
11	11. Burn site map	I		

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<i>Course Guide Section</i>	MODULE 3: LIVE FIRE EXCERSISES	CODE	EVALUATION RECORD #	EVALUATOR: Initial & date upon completion of task
	TASK 1: FIRE BEHAVIOR EXERCISE	RX		
13	1. Select and pre-plan behavior room	RX		
13	2. Identify ventilation needs	RX		
13	3. Build behavior crib (document ICS form #214)	RX		
13	4. Line placement	RX		
13	5. Instructor briefing	RX		
13	6. Position students	RX		
13	7. Discuss inherent safety of the room	RX		

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13	8. Speaking Points <ul style="list-style-type: none"> • Phases of fire • Factors influencing fire behavior • Heat indicators • Thermal layering / balance • Steam production / management • Flammable gas production • Flashover indicators • Rollover • Ventilation / air flow 	O		
13	9. Demonstrate stream management	RX		
13	10. Demonstrate steam production	RX		
13	11. Demonstrate thermal layer management	RX		
13	12. Demonstrate production of fire gases	RX		
13	13. Demonstrate heat indicators	RX		
13	14. Critique behavior evolution	RX		

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	TASK 2: INTERIOR ATTACK EXERCISE	RX		
16	1. Pre-plan all interior attack locations	RX		
16	2. Identify load locations	RX		
16	3. Identify ventilation needs	RX		
16	4. Pre burn walk through with students	RX		
16	5. Discuss safety aspects of interior attack	O		
16	6. Instructor briefing	RX		
16	7. Line placement	RX		
16	8. Discuss and demonstrate production of fire gases	RX		

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16	9. Discuss and demonstrate heat travel	RX		
16	10. Discuss and demonstrate thermal layer	RX		
16	11. Discuss and demonstrate stream use	RX		
16	12. Discuss and demonstrate steam production	RX		
16	13. Discuss and demonstrate barriers and heat shielding	RX		
16	14. Discuss and demonstrate extinguishment and overhaul of interior fires	RX		
16	15. Critique interior evolution	RX		
	TASK 3: ATTIC FIRE EXERCISE	IR		
17	1. Preplan attic fire load	RX		

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17	2. Pre burn walk through	O		
17	3. Discuss safety aspects of attic attack	O		
17	4. Instructor briefing	RX		
17	5. Line placement	RX		
17	6. Discuss and demonstrate attic fire travel	RX		
17	7. Discuss and demonstrate attic fire attack techniques	RX		
17	8. Discuss and demonstrate effects of ventilation	RX		
17	9. Discuss and demonstrate tools used	RX		
17	10. Discuss and demonstrate extinguishment and overhaul of attic fires	RX		

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17	11. Critique Attic fire evolution	RX		
	TASK 4: BASEMENT FIRE ATTACK	IR		
18	1. Pre-plan all basement attack locations	RX		
18	2. Identify load locations	RX		
18	3. Pre burn walk through	RX		
18	4. Discuss safety aspects of basement attack	RX		
18	5. Instructor briefing	RX		
18	6. Line placement	RX		
18	7. Discuss and demonstrate basement fire travel	RX		

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18	8. Discuss and demonstrate basement attack techniques	RX		
18	9. Discuss and demonstrate tools used	RX		
18	10. Discuss and demonstrate extinguishment and overhaul of basement fires	RX		
18	11. Critique basement fire evolution	RX		
	TASK 5: EXTERIOR ATTACK EXERCISE	RX		
20	1. Pre-plan all exterior attack positions	RX		
20	2. Identify load locations	RX		
20	3. Identify ventilation needed	RX		
20	4. Instructor briefing	RX		
20	5. Pre burn walk through	RX		

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20	6. Discuss safety aspects of exterior attack	RX		
20	7. Discuss final burn plan with all personnel	RX		
20	8. Position attack lines	RX		
20	9. Assign and direct instructors	RX		
20	10. Discuss anticipated fire travel from exterior	RX		
20	11. Discuss and demonstrate exterior streams	RX		
20	12. Discuss and demonstrate exterior techniques	RX		
20	13. Critique exterior fire attack	RX		
	TASK 6: FIRE CAUSE AND ORIGIN EXERCISE (May be done by local investigators)	/R		

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19	1. Pre-plan sets and locations	RX		
19	2. Identify set locations	RX		
19	3. Discuss safety aspects of the evolution	RX		
19	4. Instructor briefing	RX		
19	5. Discuss and demonstrate origin identification	RX		
19	6. Discuss and demonstrate cause identification	RX		
19	7. Discuss and demonstrate evidence recognition	RX		
19	8. Discuss and demonstrate evidence preservation	RX		
<i>Course Guide Section</i>	MODULE 4: SCBA/VENTILATION	CODE	EVALUATION RECORD #	EVALUATOR: Initial & date upon completion of task

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	<u>TASK 1 : VENTILATION</u>			
14	1. Identify building construction type	I		
14	2. Identify facades(s) <ul style="list-style-type: none"> • Inspect attachment to building • Pre-cut inspection and fire attack holes 	RX		
14	3. Identify roof construction	RX		
14	4. Identify doors	RX		
14	5. Identify stairwells, stairs and penthouses	RX		
14	6. Inspect attic space <ul style="list-style-type: none"> • Remove hazards • Ensure structural stability 	RX		
14	7. Locate and secure chimney(s)	RX		
14	8. Locate and secure HVAC units	RX		

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14	9. Identify overhead wires	RX		
14	10. Ensure utilities are secured	RX		
14	11. Develop resource needs list <ul style="list-style-type: none"> • Pike poles • Rubbish hooks • Chainsaws • Rotary saws • Spare fuel & oils • Spare chain and/or blades • Spare chainsaw bars • Tool kits * Resources may be based on availability and agency preferences.	RX		
14	12. Develop ventilation plan <ul style="list-style-type: none"> • Need for pre-cut holes or strips? • Group size • Roof stability • Available roof • Vaulted ceilings or no attic Space • Student experience level • Over live fire operations? • Instructor to student ratio 	RX		

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14	13. Determine ladder needs <ul style="list-style-type: none"> • Placement • Height • Quantity 	RX		
14	14. Confirm communications <ul style="list-style-type: none"> • <i>Radio plan</i> • Radio needs 	RX		
	TASK 2: SCBA CONFIDENCE COURSE			
15	1. Room preparation <ul style="list-style-type: none"> • Glass removal • Tack strip removal • Address direction of door swing • Remove overhead hazards 	RX		
15	2. Prop construction	RX		
15	3. Evaluate students SBCA proficiency	O		
15	4. Discuss survival techniques	O		

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15	5. Discuss exit indicators • Light • Sounds • Hoselines • Airflow	O		
15	6. Discuss search techniques	O		
15	7. Brief all instructor staff / Identify safety officer	RX		
15	8. Identify and position tools • Hoseline (s) • Thermal Imaging Camera • Hand tools	RX		
15	9. Assign Accountability Officer	O		
15	10. Establish SCBA cleaning station (Optional)	O		
15	11. Rapid Intervention Crew (If live fire)	O		

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<i>Course Guide Section</i>	MODULE 5: POST BURN	CODE	EVALUATION RECORD #	EVALUATOR: Initial & date upon completion of task
	TASK 1: SITE SECURITY			
21	1. Perform Site Survey	I		
21	2. Identify Need for Site Security <ul style="list-style-type: none"> • Access for public • Value for scavengers 	I		
21	3. Identify material need to secure the site <ul style="list-style-type: none"> • Plywood for doors windows • Fencing 	I		
21	4. Identify need for a patrol service <ul style="list-style-type: none"> • Contact local Law Enforcement for additional patrols (if necessary) 	I		
21	5. Identify need for the instructors/staff to be present for rekindles if more than one day of burning is planned.			

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21	6. Identify equipment needs for night patrol <ul style="list-style-type: none"> • Fire engines • Hand Tools • Thermal Imaging Camera 	I		
21	7. Develop a plan for after the burn down	I		

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