

OUTCOMES BASED LEARNING MATRIX

Course: **Fire Investigation 1** Department: **Fire Science Technology**

*COURSE OUTCOMES	OUTCOMES ACTIVITIES	ASSESSMENT TOOLS
1. Be familiar and understand the Massachusetts laws and landmark court cases that allow or limit fire investigation.	1. Carefully read the appropriate sections in text and handout material; (R,CT) 2. Attend class and take appropriate notes; (W) 3. Do assignments in text; (R,CT,QS,W)	1. Hand in assignments; (R,CT,QS,W) 2. Written exam; (R,CT,QS,W)
2. Have an understanding of the Chemistry and Behavior of Fire in order to analyze fire spread 3. Have the ability to understand Fire and Burn Patterns to determine Fire Cause and Origin in structures.	1. Carefully read the appropriate sections in text and handout material; (R,CT) 2. Attend class and take appropriate notes; (W) 3. Do assignments in text; (R,CT,QS,W)	1. Hand in assignments; (R,CT,QS,W) 2. Written exam; (R,CT,QS,W)
4. Be able to determine whether a fire is accidental or intentional. 5. Have the ability to conduct a structured and comprehensive investigation.	1. Carefully read the appropriate sections in text and handout material; (R,CT) 2. Attend class and take appropriate notes; (W) 3. Do assignments in text; (R,CT,QS,W)	1. Hand in assignments; (R,CT,QS,W) 2. Written exam; (R,CT,QS,W) 3. Case study/role playing to show problem solving using policies and procedures; (OC,CT,R,W).
6. Be able to reconstruct a motor vehicle fire. 7. Have an understanding of electrical fires and their causes. 8. Be familiar with the various types of explosions.	1. Carefully read the appropriate sections in text and handout material; (R,CT) 2. Attend class and take appropriate notes; (W) 3. Do assignments in text; (R,CT,QS,W)	1. Hand in assignments; (R,CT,QS,W) 2. Written exam; (R,CT,QS,W) 3. Case study/role playing to show problem solving using policies and procedures; (OC,CT,R,W) 4. Oral presentation critiqued by instructor, class, and/or self (OC, CT, R, W)
To strengthen Core Competencies** in order to increase success in this and other courses and in the	Referenced above	Referenced above.

workplace.		
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Core Competencies that apply to the outcomes activities and assessment tools: Critical Thinking (CT); technology skills (TS); oral communications (OC); quantitative skills (QS); reading (R); writing (w).