

OUTCOMES BASED LEARNING MATRIX

Course: **Building Construction and Plan Review** Department: **Fire Science Technology**

*COURSE OUTCOMES	OUTCOMES ACTIVITIES	ASSESSMENT TOOLS
1. Be knowledgeable of the various types of building classifications and what construction techniques and materials differentiate one class from another.	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. Be aware of the hazards of each building construction class when exposed to fire. 3. Demonstrate an understanding of building construction as it relates to firefighter safety, buildings codes, fire prevention, code inspection and firefighting strategy and tactics.	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. Explain the different loads and stresses that are placed on a building and their interrelationships. 5. Identify the indicators of potential structural failure as they relate to firefighter safety.	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)
6. Identify the principle structural components of buildings and demonstrate an understanding of the functions of each. 7. Differentiate between fire resistance and flame spread, and describe the testing procedures used to establish ratings for each.	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)
To strengthen Core Competencies** in order to increase success in this and other courses and in the workplace.	Referenced above	Referenced above.

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).