

FIRE INSPECTOR III

PRACTICAL SKILLS MATERIALS

Based on *NFPA 1031: Standard for Professional Qualifications for Fire Inspector and Plan Examiner*, 2014 Edition.



ALABAMA FIRE COLLEGE

APRIL 2014

Revised 07/26/18



ALABAMA FIRE COLLEGE

Fire Inspector III

Grading Rubric (NFPA 1031, 2014 Edition)

(Revised: 07/26/18)

Project completion must be the original work of the individual. Submissions are required in Microsoft Office or Adobe PDF format. The Projects are developed to meet the intent of the standard and prepare the individual to function as a Fire Inspector III. The Project work is evaluated by an evaluator not involved with the instruction of the course.

| Project # | Points Possible |
|---|-----------------|
| Project 1- Amending the Fire Code - NFPA 1031- 6.2.2, 6.2.3 (Group Project) | 8 |
| Project 2- Performance Based Project - NFPA 1031- 6.3.1, 6.3.11 (Group Project) | 6 |
| Project 3- Site Plan Review - NFPA 1031- 6.3.10 (Group Project) | 14 |
| Project 4- Construction Type Exercise - NFPA 1031- 6.2.4, 6.2.9, 6.3.3 (Group Project) | 14 |
| Project 5- Code/Permit Enforcement Exercise - NFPA 1031- 6.2.6, 6.2.7 (Group Project) | 10 |
| Project 6- Appeal/Mean of Egress Exercise - NFPA 1031- 6.2.1, 6.3.1, 6.3.2, 6.3.6 (Group Project) | 14 |
| Project 7- Budget Exercise - NFPA 1031- 6.2.5, 6.2.8 (Group Project) | 14 |
| Project 8- Hazardous Production Material Exercise - NFPA 1031- 6.3.4, 6.3.5, 6.3.7, 6.3.8 (Group Project) | 14 |
| Project 9- Acceptance Test Exercise - NFPA 1031- 6.3.9, 6.3.11 (Group Project) | 4 |
| Completes and submits Peer Review | 2 |
| Total Points | 100 |

| Project 1- NFPA 1031- 6.2.2, 6.2.3 | Points Possible |
|---|-----------------|
| Modification is written to address the identified need or deficiency <ul style="list-style-type: none"> • Addresses the mayor's misunderstanding about the requirements for a fire alarm system • Documents the existing section of the code (by reference number) and the proposed amendment (by reference number) • Cites the applicable code and any exceptions allowed by the code | 2 |
| Facilitates code adoption and modification processes <ul style="list-style-type: none"> • Proper memo format in response to the documentation received through the Fire Chief's Office • Uses legally adoptable language | 2 |
| The impact of the proposal on fire safety and code enforcement activities is documented <ul style="list-style-type: none"> • Explains the code change and which assembly occupancies will be affected • Assesses the impact of proposed codes, ordinances, and other legislation • Identifies cost/risk benefit | 2 |
| Presents Project | 2 |
| Total Points | 8 |

| Project 2- NFPA 1031- 6.3.1, 6.3.11 | Points Possible |
|---|------------------------|
| Documents decision based on the performance-based report <ul style="list-style-type: none"> Life safety systems and building services equipment are installed, inspected, and tested to perform as described in the engineering documents The operations and maintenance manual that accompanies the design and deficiencies are identified, documented, and reported in accordance with the policies of the jurisdiction | 2 |
| Evaluates compliance with documentation by referencing the prescriptive code section with regards to an approved commercial cooking system with a wet-chemical extinguishing agent <ul style="list-style-type: none"> Determines any additional documentation by the AHJ | 2 |
| Presents Project | 2 |
| Total Points | 6 |

| Project 3- NFPA 1031- 6.3.10 | Points Possible |
|--|------------------------|
| Fire suppression services can be delivered in accordance with the policies of the jurisdiction <ul style="list-style-type: none"> Provides code reference and requirements for hydrant distribution Interprets hydrant distances to an FDC | 4 |
| Develops and identifies emergency access requirements contained in the applicable codes and standards <ul style="list-style-type: none"> Provides code reference and explanation of the requirements for FD access road width and surface | 4 |
| Develops and identifies emergency access requirements contained in the applicable codes and standards <ul style="list-style-type: none"> Provides code reference and explanation of the requirements for security gates | 4 |
| Presents Project | 2 |
| Total Points | 14 |

| Project 4- NFPA 1031- 6.2.4, 6.2.9, 6.3.3 | Points Possible |
|---|------------------------|
| Interprets existing construction type <ul style="list-style-type: none"> Provides code reference | 4 |
| Interprets code for the requested alternate construction type <ul style="list-style-type: none"> Provides code reference Documents allowable area and height increase | 4 |
| Interprets code for requirements for mixed use occupancy <ul style="list-style-type: none"> Provides code reference | 2 |
| Develops and uses policies and procedures to determine compliance of this project | 2 |
| Presents Project | 2 |
| Total Points | 14 |

| Project 5- NFPA 1031- 6.2.6, 6.2.7 | Points Possible |
|---|------------------------|
| Documents time of use compliance for a temporary tent and documents flame-resistance requirements <ul style="list-style-type: none"> • Provides code reference | 2 |
| Documents construction compliance for permanent tents (permanent membrane structures) <ul style="list-style-type: none"> • Provides code reference | 2 |
| Documents the number of exits and width requirements for a temporary tent with an occupant load of 36 <ul style="list-style-type: none"> • Provides code reference | 2 |
| Documents the use of combustible decorations and open flames in tent <ul style="list-style-type: none"> • Provides code reference | 2 |
| Documents compliance of attaching a temporary tent or membrane structure to the building <ul style="list-style-type: none"> • Provides code reference | 2 |
| Total Points | 10 |

| Project 6- NFPA 1031 - 6.2.1, 6.3.1, 6.3.2, 6.3.6 | Points Possible |
|---|------------------------|
| Generates written correspondence related to the issuance of the appeal <ul style="list-style-type: none"> • Documents approval or disapproval of temporary increase in the occupant load • Provides code reference | 4 |
| The resulting document clearly addresses the issue and is appropriate for the intended audience | 2 |
| Documents any requirements for crowd managers | 2 |
| Documents the occupant load based on fixed seating and the floor plan <ul style="list-style-type: none"> • Assesses alternative methods to adjust occupant loads • Evaluates evacuation plan procedures • Recommends criteria for the development of emergency planning and procedures | 2 |
| Documents exit capacity <ul style="list-style-type: none"> • Provides code reference | 2 |
| Presents Project | 2 |
| Total Points | 14 |

| Project 7- NFPA 1031- 6.2.5, 6.2.8 | Points Possible |
|--|------------------------|
| Establishes priorities with an inspection schedule for occupancies with fire protection systems based on the information provided in the scenario | 2 |
| Establishes criteria for a monthly report | 2 |
| Establishes a system to file inspection reports. | 2 |
| Establishes a policy for actions taken by the inspector at the time a violation is discovered and for scheduling re-inspections. | 2 |
| Develops a budget with the following criteria: <ul style="list-style-type: none"> • Salaries and benefits for three inspectors • Vehicle(s) purchase • Office equipment • Replace with: Purchase a minimum of one (1) fire code, one (1) building code and one (1) NFPA subscription • Total budget requested shall remain under \$245,000.00 • Calculates budget impact • Measures cost/benefit • Identifies additional financial resources | 4 |
| Presents report to the class. | 2 |
| Total Points | 14 |

| Project 8- NFPA 1031- 6.3.4, 6.3.5, 6.3.7, 6.3.8 | Points Possible |
|---|------------------------|
| Evaluates alternative protection measures of equipment, operations, and processes, storage, handling, and use of hazardous materials, flammable or combustible liquids and gases <ul style="list-style-type: none"> • A letter is written in response to the architect's request | 4 |
| The equipment, process, or operation is provided with a level of protection that is in compliance with the intent of applicable codes and standards <ul style="list-style-type: none"> • Plans are submitted and approved prior to work starting • Permits are required | 4 |
| MSDS and Hazard identification signs (NFPA 704) are required <ul style="list-style-type: none"> • Provide code reference | 2 |
| The property line is addressed <ul style="list-style-type: none"> • Provide code reference | 2 |
| Presents Project | 2 |
| Total Points | 14 |

| Project 9- NFPA- 6.3.9, 6.3.11 | Points Possible |
|--|------------------------|
| Witnesses or supervises an acceptance test for an integrated fire protection system <ul style="list-style-type: none"> • System performance is evaluated for compliance | 2 |
| Deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction | 2 |
| Total Points | 4 |

| Peer Review | Points Possible |
|--|------------------------|
| Evaluation completed by each group member <ul style="list-style-type: none">• 90-100% = 2 points• 80-89% = 1.5 points• 70-79% = 1 points• 60-69% = .5 point | 2 points |
| Total Points Possible | 2 |



Fire Inspector III
Project Grading Sheet
NFPA 1031, 2014 edition
Revised 08/17/2017

(Proctors: Collect Project Grade Sheet & project work ONLY if AFC_Online is NOT being used for project submission)

Student ID: _____

Student Name: _____

Group Number/Assignment: _____

| Project Description | JPRs | Possible Points | Final Score |
|--|----------------------------|-----------------|-------------|
| Project 1 - Amending the Fire Code | 6.2.2, 6.2.3 | 8 | |
| Project 2 - Performance Based Project | 6.3.1, 6.3.11 | 6 | |
| Project 3 - Site Plan Review | 6.3.10 | 14 | |
| Project 4 - Construction Type Exercise | 6.2.4, 6.2.9, 6.3.3 | 14 | |
| Project 5 - Code/Permit Enforcement Exercise | 6.2.6, 6.2.7 | 10 | |
| Project 6 - Appeal/Mean of Egress Exercise | 6.2.1, 6.3.1, 6.3.2, 6.3.6 | 14 | |
| Project 7 - Budget Exercise | 6.2.5, 6.2.8 | 14 | |
| Project 8 - Hazardous Production Material Exercise | 6.3.4, 6.3.5, 6.3.7, 6.3.8 | 14 | |
| Project 9 - Acceptance Test Exercise | 6.3.9, 6.3.11 | 4 | |
| Completes/Submits Peer Review | | 2 | |
| Total Points | | 100 | |

Date

Student's Signature

Instructor's Printed Name & Signature

Certification Evaluator's Printed Name & Signature

Alabama Fire College Fire Inspector III

Student Peer Review

Guidelines for Assigning Grades

- 90-100% Work turned into the group on time and is of high quality
Member contributed totally to group goals
Member enthusiastic and exhibited a willingness to cooperate
Member worked well with team concept
Member willing to compromise to achieve goals

- 80-89% Work is turned in late rarely but is of good quality
Member contributed to goals and is able to compromise to meet group goals

- 70-79% Work is turned in late occasionally and is of average quality
Member contributed but with little cooperation within the group
Member exhibited minimal interest in group project

- Below 70% Member did not contribute to group goals with little or no work contributed
Member exhibited no appreciation for group goals
Member could not function in group situation
Member did more harm than good

Your Name: _____

Peer Evaluation per Project

| Name of Team Member | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---------------------|---|---|---|---|---|---|---|---|---|
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Comments: _____