

CENTRAL NEW MEXICO COMMUNITY COLLEGE
ASSESSMENT REPORT
Due to SAAC by October 15

PART 1: CONTACT & PROGRAM IDENTIFICATION

Report Year and Contact Information:			
<u>2013- 2014</u> Academic Year	<u>Michael Kavanaugh</u> Contact Person	<u>kavanaugh@cnm.edu</u> Email	<u>224 4000 ext. 50177</u> Phone Number

Subject of this Assessment Report:		
Program: <u>Firefighter I</u> <input checked="" type="checkbox"/> Certificate <input type="checkbox"/> AA <input type="checkbox"/> AS <input type="checkbox"/> AAS	Gen Ed Area: _____ Applicable to: <input type="checkbox"/> AA/AS <input type="checkbox"/> AAS	Discipline Area: _____

PART 2: EVIDENCE OF ACHIEVEMENT OF PROGRAM OUTCOMES

Summary of Program Success in Achieving Desired Outcomes:
<p>The Fire Science program is succeeding in meeting the outcomes and exit competencies for this reporting period. In this certificate program over half of the course is dedicated to hands on training. Towards the last part of the semester students travel to the New Mexico State Fire Academy (NMSFA) in Socorro and go through several live structure training fires, This gives the student a real life experience of what it takes to become a firefighter.</p>

Description and Evaluation of Recent Changes Made in Support of Student Learning:
<p>This certificate has to meet very strict standards required by the issuing agency (New Mexico State Fire Academy) all exams, assignments and practical exercises have been validated by Subject Matter Experts (SME's). To complete this certificate program Students have to take a written and practical exam given by a third party. If they pass students receive a National certification.</p>

PART 3: REPORT ON RECENT ASSESSMENT OF STUDENT LEARNING PROCESSES

Learning Outcome(s)/Exit Competencies Assessed:	Classes/Cohorts Assessed:
<i>To add rows: right-click in cell below and select "Insert," "Insert Rows Above"</i> 1 Explain and promote fire protections and prevention within the community	FS 1817 Wildland Emphasis FS 1820 Hazardous Materials

	FS 2015 Firefighter 1
2 Explain the causes of structural, Wildland, vehicle, and hazardous materials fires and understand the effects of fire in these settings so they may predict fire behavior while fighting fires	FS 1817 Wildland Emphasis FS 1820 Hazardous Materials FS 2015 Firefighter 1
3 To do an industrial fire inspection, set up an industrial fire protection system, and conduct an investigation into the cause of a fire	FS 1817 Wildland Emphasis FS 1820 Hazardous Materials FS 2015 Firefighter 1
4 Understand and coordinate fire service organizations and manage different types of emergencies	FS 1817 Wildland Emphasis FS 1820 Hazardous Materials FS 2015 Firefighter 1
5 Apply different tactics and strategies needed to fight fires in a variety of situations	FS 1817 Wildland Emphasis FS 1820 Hazardous Materials FS 2015 Firefighter 1

Measurement Tool(s) Used:	Enter X's for type of tool				Initial Achievement Target or Expectation:
	Internal	External	Direct	Indirect	
<i>To add rows: right-click in cell below and select "Insert," "Insert Rows Above"</i>					
Exam-embedded questions FS 1817 Wildland Emphasis Exam-embedded questions and practical hands on New Mexico State Certification final exam FS 1820 Hazardous Materials Exam-embedded questions and practical hands on FS 2015 Firefighter I	X	X	X		At least 70% of students passed with a t least a C or better
Exam-embedded questions FS 1817 Wildland Emphasis Exam-embedded questions and practical hands on New Mexico State Certification final exam FS 1820 Hazardous Materials Exam-embedded questions and practical hands on FS 2015 Firefighter I	X	X	X		At least 70% of students passed with a t least a C or better
Exam-embedded questions FS 1817 Wildland Emphasis Exam-embedded questions and practical hands on New Mexico State Certification final exam FS 1820 Hazardous	X	X	X		At least 70% of students passed with a t least a C or better

Materials Exam-embedded questions and practical hands on FS 2015 Firefighter I					
Exam-embedded questions FS 1817 Wildland Emphasis Exam-embedded questions and practical hands on New Mexico State Certification final exam FS 1820 Hazardous Materials Exam-embedded questions and practical hands on FS 2015 Firefighter I	X	X	X		At least 70% of students passed with a t least a C or better
Exam-embedded questions FS 1817 Wildland Emphasis Exam-embedded questions and practical hands on New Mexico State Certification final exam FS 1820 Hazardous Materials Exam-embedded questions and practical hands on FS 2015 Firefighter I	X	X	X		At least 70% of students passed with a t least a C or better

Assessment Results/Findings:

For this reporting period I used exit competencies 1, 2,3,4,5. 202 students were evaluated the overall results show that 85% of the students passed with a C or better. I based these results on several factors course exams, assignments, skill test and third party evaluations.

Analysis and Interpretation of Assessment Results/Findings:

The two nationally certified courses (FS 1820 & FS 2015) exams and practical exercises have very stringent requirements. I attribute the high pass rate to the excellent instructors we have teaching these courses. We have looked at some questions that are missed in the test and are looking at approaching the instruction using a different method

Action Plan in Support of Student Learning:

Our achievement target called for at least 70% of students passing with a C or better. All classes for this Certificate Program achieved the target goal. To me this is very significant, two of the three classes measured (FS 1820 & FS 2015)are evaluated by a third party (The State Fire Academy) this shows we are meeting our goals.

Recommendations, Proposals, and/or Funding Requests:

FS 2015 is conducted at the Albuquerque Fire Department, due to the tremendous amount of equipment this course must use (ladders, saws, breathing equipment etc.) The only thing CNM provides is the protective equipment needed by the students this equipment is valued at \$15,000-20,000 The instructors

for this course have to transport the protective equipment to class 3 times a week for student use. I have requested a trailer to store this high dollar piece of equipment but to no avail

PART 4: EMBEDDED OUTCOMES

Critical Thinking and Life Skills/Teamwork Development within Programs:

- a) Please describe how Critical Thinking assessment is embedded within your program assessment.
- b) Please describe how Life Skills/Teamwork assessment is embedded within your program assessment.

a) Critical thinking is embedded in all of our classes **FS 1817** Wildland Emphasis teaches the students about on scene management were they have to make decisions about vehicle placement & use. These decisions that are made at the fire scene are very critical to the safety of the firefighters. In **FS 1820** Hazardous Materials students have to identify certain chemicals before they enter a hazardous environment they also have to identify and use the appropriate type of protective equipment. In **FS 2015** Firefighter I this class teaches about decisions that have to be made before entering a burning building

b) Teamwork is the main stay of all of our classes, we do not want our students to freelance. In the fire scene someone has to be in charge and give the firefighters direction this is done for the safety of our personnel. All of these three classes emphasize teamwork

PART 5: ASSESSMENT CYCLE PLAN (Copy and paste from original plan if unchanged)

Cycle Years:	Plan Description:
2013- 2017	The fire service career field is expanding due to an emphasis on fire safety which has created a need for trained, Skilled, and knowledgeable firefighters. These courses lead to two Nationally certified certificates that make a student more marketable in the fire service. Students enrolled in this program receive training on Incident command, Hazardous Materials awareness and operations that teaches hazard notification and isolation of hazardous waste. Students experience learning how to use the tools that are used in the fire service and what it is like to fight a live fire in a controlled environment.

Student Learning Outcomes/Exit Competencies:	When Measured:	Where Measured:	How Measured:
1. Explain and Promote fire protection and prevention within the community	2013-2017	FS 1817 Wildland Emphasis FS 1820 Hazardous Materials FS 2015 Firefighter I	Exam-embedded questions FS 1817 Wildland Emphasis Exam-embedded questions and practical hands on New Mexico State Certification final exam FS 1820 Hazardous Materials Exam-embedded questions and practical hands on FS 2015 Firefighter I
2. Explain the causes of structural, Wildland, vehicle	2013-2017	FS 1817 Wildland Emphasis	Exam-embedded questions FS 1817 Wildland Emphasis

and hazardous materials fires and understand the effects of fire in these settings so they may predict fire behavior while fighting fires.		FS 1820 Hazardous Materials FS 2015 Firefighter I	Exam-embedded questions and practical hands on New Mexico State Certification final exam FS 1820 Hazardous Materials Exam-embedded questions and practical hands on
3. To do an industrial fire inspection, set up an industrial fire protection system and conduct an investigation into the cause of a fire	2013-2017	FS 1817 Wildland Emphasis FS 1820 Hazardous Materials FS 2015 Firefighter I	Exam-embedded questions Exam-embedded questions and practical hands on New Mexico State Certification final exam Exam-embedded questions and practical hands on FS 2015 Firefighter I
4. Understand and coordinate fire service organizations and manage different types of emergencies	2013-2017	FS 1817 Wildland Emphasis FS 1820 Hazardous Materials FS 2015 Firefighter I	Exam-embedded questions Exam-embedded questions and practical hands on New Mexico State Certification final exam Exam-embedded questions and practical hands on
5. Apply different tactics and strategies needed to fight fire in a variety of situations	2013-2017	FS 1817 Wildland Emphasis FS 1820 Hazardous M FS 2015 Firefighter I	Exam-Imbedded questions Exam-embedded questions and practical hands on New Mexico State Certification final exam Exam-embedded questions and practical hands on