

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

PART 1: CONTACT & PROGRAM IDENTIFICATION

Report Year and Contact Information			
<u>2016-2017</u> Academic Year	<u>Charles Molinari</u> Contact Person	<u>cmolinari@cnm.edu</u> Email	<u>224-4000 Ext 50743</u> Phone Number

Subject of this Assessment Report		
Program: <u>Firefighter I Certificate of Achievement</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	Non-Award, Non-Gen-Ed Discipline Area: _____

PART 2: THE YEAR IN RETROSPECT

Program/Area Highlights (Including, wherever applicable, course completion, job placement, and licensing examination information)
<p>During the 2016 2017 reporting period the Fire Science Program has been successful in helping the students in meeting the student learning outcomes for the program. These outcomes are measure throughout the program in many classes, through a variety of tools including in class assessments, skills examinations, discussions, and critical thinking exercises. The use of a compilation of different tools insures that the students are meeting industry standard job performance requirements.</p>

Changes Made in Support of Student Learning
<p>The only recent change made to the program, was to no longer issue FEMA I-300 certificates during the FS 1817 course due to the fact that FEMA prohibits these certificates from being issued for online course work. In order to support student learning it has been proposed to deactivate this certificate for the 2018 catalog and replace it with a certificate that meets the outcomes of the DACUM study complete during the summer of 2016. The new proposed certificate will contain many of the certifications required to work in the field thus making the students more employable upon completion.</p>

PART 3: REPORT ON RECENT ASSESSMENT OF STUDENT LEARNING

Student Learning Outcome(s) Assessed <i>To add rows: right-click in cell below and select "Insert," "Insert Rows Above"</i>	Classes/Cohorts Assessed
1. Explain and promote fire protection and prevention within the community.	FS 1504 Wildland Firefighting, FS 1820 Hazardous Materials Awareness and Operations, FS 2015 Firefighter I.
2. Explain the causes of structural, wildland, vehicle, and hazardous materials fires and understand the effects of fires in these settings so they may predict fire behavior while fighting fires.	FS 1504 Wildland Firefighting, FS 1820 Hazardous Materials Awareness and Operations, FS 2015 Firefighter I.
3. Perform a prefire plan, and identify the components of a fire protection system.	FS 1820 Hazardous Materials Awareness and Operations, FS 2015 Firefighter I.
4. Understand and coordinate fire service organizations and manage different types of emergencies.	FS 1504 Wildland Firefighting, FS 1817 Wildland Emphasis, FS 1820 Hazardous Materials Awareness and Operations, FS 2015 Firefighter I.
5. Apply different tactics and strategies needed to fight fires in a variety of situations.	FS 1504 Wildland Firefighting, FS 1820 Hazardous Materials Awareness and Operations, FS 2015 Firefighter I.

Measurement Tool(s) Used <i>To add rows: right-click in cell below and select "Insert," "Insert Rows Above"</i>	<i>Enter X's for type of tool</i>				Initial Achievement Target or Expectation
	Internal	External	Direct	Indirect	
(This row is currently empty for data entry)					

FS-1504 Wildland Firefighting <ul style="list-style-type: none"> • Students are given 10 quizzes throughout the trimester that assess their knowledge of the week's readings. These reading include material from S-190 and S-130. (Formative) • Students are given an I-100 Final Exam (Summative) • Students are given an L-180 Final Exam (Summative) • Students are given an S-130 Final Exam (Summative) • Students are given an S-190 Final Exam (Summative) • Students are given and exam on the Incident Response Pocket Guide (Summative) • Students are assessed and timed on the deployment of Fire Shelters (Skills Assessment) • Students are assessed on their skills using hand tools, radios, maps, reference materials and weather kits during field days that are a total of 8 hours in length. (Skills Assessment) 					
	x	x	x		

<p>FS-1817 Wildland Emphasis</p> <ul style="list-style-type: none"> • Student are given 11 textbook quizzes and they receive weekly feedback. (Formative) • Students are given 6 I-300 quizzes (Formative) • Students are given 3 Final Exams: I-200, I-700, I-800 (Summative) 	x	x	x		
<p>FS-1820 Hazardous Materials Awareness & Operations</p> <ul style="list-style-type: none"> • Students are given weekly quizzes (Formative) • Students are given practical exercises throughout the course testing job performance requirements (Formative) • Students are given a written final exam. (Summative) • Students are given a practical final exam (Summative) <p>Students take a New Mexico Firefighters Training Academy written and practical exam. (External/Summative)</p>	x	x	x		

FS – 2015 Firefighter I				
<ul style="list-style-type: none"> • Students are given weekly quizzes (Formative) • Students are given practical exercises throughout the course testing job performance requirements (Formative) • Students are given a written final exam. (Summative) • Students are given a practical final exam (Summative) • Students take a New Mexico Firefighters Training Academy written and practical exam. (External/Summative) 	x	x	x	

Assessment Findings
<p>For the reporting period 2016-2017 Student Learning Outcomes 1, 2, 3, 4, and 5 were assessed. All were met with more than 70% of the students having passed with a C or better based upon C pass rate data obtained from the Program Information Dashboard.</p> <p>Additionally, during the reporting period many students obtained industry standard certificates associated with these courses.</p> <p>FS 1504 Wildland Firefighting (NWCG S-130, S-190, I-100, L-180. 4 certificates): 64 Students.</p> <p>FS 1817 Wildland Emphasis (FEMA I-200, I-700, I-800. 3 certificates): I-200 14 Students, I-700 & I-800 15 Students.</p> <p>FS 1820 Hazardous Materials Awareness and Operations (IFSAC Hazardous Materials Awareness and Operations): 34 Students.</p> <p>FS 2015 Firefighter I (IFSAC Firefighter I): 19 Students.</p>

Analysis and Interpretation of Assessment Findings
<p>Course success for the classes in this certificate meet the requirements set forth by NWCG, FEMA, and IFSAC. The IFSAC course exams are administered by a third party (The New Mexico Firefighters Training Academy Staff).</p>

Action Plan in Support of Student Learning
<p>All courses in this certificate have meet the course outcomes requirements of greater than 70% of the students passed with a C or better.</p>

Please indicate with an X all of the following that characterize the types of changes described in the above action plan:

- Pedagogical change
 Course revision
 Process revision
 Curricular revision
 Budgetary reallocation
 Faculty training/development
 Assessment criteria revision
 Assessment methodology revision

Recommendations, Proposals, and/or Funding Requests
For the 2017-2018 year the FS 2015 Firefighter I course has been replaced with Firefighter I & II Topics courses to align training with the New Mexico Firefighters Training Academy practices, and to meet the recommendations outlined in the DACUM. Students seeking the Firefighter I Certificate of achievement will receive substitutions for FS 2015 as all of the SLO's are met in the Topics courses.

PART 4: ASSESSMENT CYCLE PLAN UPDATE (Copy and paste from original plan if unchanged)

Cycle Years	Description of Changes Made (if applicable)
2016 – 2021	The fire service career field continues to need a trained, skilled, and knowledgeable workforce. The Fire Science program continues to support this need through graduating qualified candidates. The students are prepared for these jobs upon completion a vigorous curriculum that meets the necessary student learning outcomes.

Student Learning Outcomes	When Measured	Where Measured	How Measured
1. Explain and promote fire protection and prevention within the community.	2016 - 2021	FS 1504 Wildland Firefighting	In class and certification exams (embedded questions), Field Day (skills practice, practical scenarios), NWCG examinations (embedded questions).
		FS 1820 IFSAC Hazardous Materials Awareness and Operations	In class examinations (embedded questions), Practical exercises (skill sheets), IFSAC Examination (embedded questions and skill sheets).
		FS 2015 IFSAC Firefighter I	In class examinations (embedded questions) practical examinations (skill sheets), Live Burn Training (NMFTA), IFSAC Examination (embedded questions and skill sheets).
2. Explain the causes of structural, wildland, vehicle, and hazardous materials fires and	2016 - 2021	FS 1504 Wildland Firefighting	In class and certification exams (embedded questions), Field Day (skills

<p>understand the effects of fires in these settings so they may predict fire behavior while fighting fires.</p>		<p>FS 1820 IFSAC Hazardous Materials Awareness and Operations</p> <p>FS 2015 IFSAC Firefighter I</p>	<p>practice, practical scenarios) NWCG examinations (embedded questions).</p> <p>In class examinations (embedded questions), Practical exercises (skill sheets), IFSAC Examination (embedded questions and skill sheets).</p> <p>In class examinations (embedded questions) practical examinations (skill sheets), Live Burn Training (NMFTA), IFSAC Examination (embedded questions and skill sheets).</p>
<p>3. Perform a prefire plan, and identify the components of a fire protection system.</p>	<p>2016 - 2021</p>	<p>FS 1820 IFSAC Hazardous Materials Awareness and Operations</p> <p>FS 2015 IFSAC Firefighter I</p>	<p>In class examinations (embedded questions), Practical exercises (skill sheets), IFSAC Examination (embedded questions and skill sheets).</p> <p>In class examinations (embedded questions) practical examinations (skill sheets), Live Burn Training (NMFTA), IFSAC Examination (embedded questions and skill sheets).</p>
<p>4. Understand and coordinate fire service organizations and manage different types of emergencies.</p>	<p>2016 - 2021</p>	<p>FS 1504 Wildland Firefighting</p> <p>FS 1817 Wildland Emphasis (NIMS)</p> <p>FS 1820 IFSAC Hazardous Materials Awareness and Operations</p>	<p>In class and certification exams (embedded questions), Field Day (skills practice, practical scenarios), NWCG examinations (embedded questions).</p> <p>In class examinations (embedded questions), practical exercises (checklists), FEMA examinations (embedded questions).</p> <p>In class examinations (embedded questions), Practical exercises (skill sheets), IFSAC Examination (embedded questions and skill sheets).</p>

		FS 2015 IFSAC Firefighter I	In class examinations (embedded questions) practical examinations (skill sheets), Live Burn Training (NMFTA), IFSAC Examination (embedded questions and skill sheets).
5. Apply different tactics and strategies needed to fight fires in a variety of situations.	2016 - 2021	FS 1504 Wildland Firefighting	In class and certification exams (embedded questions), Field Day (skills practice, practical scenarios) NWCG examinations (embedded questions).
		FS 1820 IFSAC Hazardous Materials Awareness and Operations	In class examinations (embedded questions), Practical exercises (skill sheets), IFSAC Examination (embedded questions and skill sheets).
		FS 2015 IFSAC Firefighter I	In class examinations (embedded questions) practical examinations (skill sheets), Live Burn Training (NMFTA), IFSAC Examination (embedded questions and skill sheets).