

CENTRAL NEW MEXICO COMMUNITY COLLEGE

ASSESSMENT REPORT

Due to SAAC by September 30

PART 1: CONTACT & PROGRAM IDENTIFICATION

Report Year and Contact Information:			
<u>2013-2014</u>	<u>David Ruff</u>	<u>druff@cnm.edu</u>	<u>224-4000 ext 50228</u>
Academic Year	Contact Person	Email	Phone Number

Subject of this Assessment Report:		
Program: <u>Construction Management Technologies</u> <input type="checkbox"/> Certificate <input type="checkbox"/> AA <input type="checkbox"/> AS <input checked="" 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>Student achievement for the learning outcomes assessed were at expected levels and exceeded target in most courses. The first outcome assessed sets a good foundation for further application of skills and knowledge and is a critical career skill. Assessment of this outcome shows good student learning with some areas of improvement necessary. The second outcome is a fundamental career skill and shows similar assessment results.</p>

Description and Evaluation of Recent Changes Made in Support of Student Learning:
<p>Increasing contact hours in order to add or supplement lab time has increased student learning. Students are able to apply knowledge and skills to a broader and more challenging context.</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> <p>2. Demonstrate a firm understanding of how to read and interpret residential, commercial, and civil drawings and specifications.</p>	<p>CM 1105 - Construction Detailing</p>

	CM 1205 - Computer Aided Construction Drafting/Engineering CM1210- Mechanical and Electrical Systems Construction CM 2999 - Construction Management Capstone Course
3. Develop a systematic approach to construction cost estimation and project management techniques.	CM 1220 - Introduction to Construction Project Management CM 1305 - Construction Estimating CM 2999 - Construction Management Capstone Course

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>					
SLO #2 Quizzes, Exams, Homework, Projects	X		X		Mean of measurement tools score of <75%
SLO #3 Quizzes, Exams, Homework, Projects	X		X		Mean of measurement tools score of <75%

Assessment Results/Findings:
CM1105 Mean measurement score of 52% blueprint reading exercises; 75% drafting projects. CM1205 Mean measurement score of 98% BIM projects CM1210 Mean measurement score of 86% CM2999 Fall 2013/ Spring 2014 mean measurement score of 68%(Fall) and 88%(Spring) CM1220 Course not held during measurement period CM1305 Fall 2013 Mean measurement score of 86%

Analysis and Interpretation of Assessment Results/Findings:
Results show measurement scores below target in CM1105 and CM2999 (Fall2013). All other target scores were attained. Further analysis of CM1105 shows students failing to complete work and receive a score rather than low scores on completed work. Deeper analysis of CM2999 shows a similar finding but less pronounced.

Action Plan in Support of Student Learning:

Students show success if they are able to complete assignments. The amount of assignments and length of time given for assignments will be reviewed in CM1105. CM2999 has been eliminated from program curriculum.

Recommendations, Proposals, and/or Funding Requests:

Consideration should be given to reinstating CM2999 Capstone. Assessing student learning near the end of their academic experience rather than while they are acquiring new knowledge and skills would be valuable. Additionally, the result of this analysis may show students are not retaining previous learning or are unable to apply it to a new situation.

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) Over 24 credit hours of the Construction Management Technology program are in theory\lab classes. Knowledge acquired through lecture are applied completing estimating, scheduling, and construction management problems and projects. Assessment is done by evaluating their ability to apply appropriate knowledge, skills, and processes to resolve problems and complete assigned projects.

b) Students in the Construction Management Technology program are routinely assigned group, collaborative, and individual assignments and projects. An assessment component of these assignments includes an evaluation of how the students demonstrate a positive work ethic, appropriate professional behavior, time management, and effective communicate skills.

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

Plan Description:

Construction Management Technology AAS program has five student learning outcomes. One outcome is scheduled to be assessed each year. Per the Assessment cycle SLO #3 was assessed along with SLO #2.

Student Learning Outcomes/Exit Competencies:	When Measured:	Where Measured:	How Measured:
1. Demonstrate knowledge and skills in basic business management and organization.	Fall and Spring Term Year 1	CM 2210 - General Contractor Preparation	Direct Internal – Quizzes, Exams, Homework, Projects

		CM 2999 - Construction Management Capstone Course	
2. Demonstrate a firm understanding of how to read and interpret residential, commercial, and civil drawings and specifications.	Fall and Spring Term Year 2	CM 1105 - Construction Detailing CM 1205 - Computer Aided Construction Drafting/Engineering CM1210- Mechanical and Electrical Systems Construction CM 2999 - Construction Management Capstone Course	Direct Internal – Quizzes, Exams, Homework, Projects
3. Develop a systematic approach to construction cost estimation and project management techniques.	Fall and Spring Term Year 3	CM 1205 - Computer Aided Construction Drafting/Engineering CM 1220 - Introduction to Construction Project Management CM 1305 - Construction Estimating CM2205- Construction Surveying CM 2999 - Construction Management Capstone Course	Direct Internal – Quizzes, Exams, Homework, Projects
4. Illustrate proficiency in the use of computers and construction related software for estimating, project management, and basic office communication.	Fall and Spring Term Year 4	CM1105- Construction Detailing CM1110- Materials and Techniques CM 2105 - Construction	Direct Internal – Quizzes, Exams, Homework, Projects

		Scheduling CM 2115 - Computerized Estimating Techniques	
5. Apply relevant communication skills, project teamwork, and problem solving techniques in the construction industry work environment.	Fall and Spring Term Year 5	CM1110- Materials and Techniques CM1115- Commercial Construction Theory CM1215- Construction Equipment and Methods	Direct Internal – Quizzes, Exams, Papers, Homework, Projects, Presentations.