

**CENTRAL NEW MEXICO COMMUNITY COLLEGE  
5-YEAR ASSESSMENT CYCLE PLAN**

*Due to SAAC by October 15 following new program approval or at the end of the prior cycle plan*

<b>Plan Years and Contact Information:</b>			
2017/2020 (see note 1)	David Ruff	druff@cnm.edu	Ext 50228
<b>5-Year Range</b>	<b>Contact Person</b>	<b>Email</b>	<b>Phone Number</b>

<b>Subject of the Assessment</b> <i>(Please fill in only one of the three sections below):</i>		
<b>Program:</b> <u>Construction Management Technology</u> <input checked="" type="checkbox"/> Certificate <input type="checkbox"/> AA <input type="checkbox"/> AS <input checked="" type="checkbox"/> AAS	<b>Gen Ed Focus:</b> _____ Applicable to: <input type="checkbox"/> AA/AS <input type="checkbox"/> AAS	<b>Discipline Area</b> (Non-award, non-Gen Ed): _____

<b>Student Learning Outcomes:</b>	<b>When Measured:</b>	<b>Where Measured:</b>	<b>How Measured: (see note 2)</b>
1. Demonstrate effective communication, both orally and in writing.	Fall 17, Spring 18	CM2120 Structures CM1220 Introduction to Project Management	Direct Internal – Research Paper, Presentation, Projects  In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
2. Demonstrate the ability to estimate quantities and costs for the bidding process in a construction project.	Fall 17, Spring 18	CM1210 Mechanical and Electrical Building Systems CM1305 Construction Estimating CM1215 Construction Equipment and Methods CM2115 Computerized Estimating Techniques	Direct Internal – Exercises, Projects  Direct External – Industry Professional Review

			In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
3. Demonstrate the ability to schedule a basic construction project.	Fall 17, Spring 18	CM2105 Construction Scheduling CM2220 Computer Project Scheduling	Direct Internal – Quizzes, Exams, Exercises, Projects Direct External – Industry Professional Review In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
4. Demonstrate the ability to use current technology related to the construction process.	Fall 17, Spring 18	CM1205 Introduction to Building Information Modeling CM1220 Introduction to Project Management CM2115 Computerized Estimating Techniques CM2220 Computer Project Scheduling CM2205 Construction Surveying	Direct Internal – Quizzes, Exams, Exercises, Projects  In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
5. Interpret construction documents (contracts, specifications, and drawings) used in managing a construction project.	Fall 18, Spring 19	CM1105 Construction Detailing CM2115 Computerized Estimating Techniques	Direct Internal – Quizzes, Exams, Exercises, Projects  In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
6. Apply basic principles of construction accounting.	Fall 18, Spring 19	CM1220 Introduction to Project Management	Direct Internal – Quizzes, Exams, Exercises, Projects

		CM1215 Construction Equipment and Methods CM2220 Computer Project Scheduling CM2210 General Contractors Preparation	In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
7. Use basic surveying techniques used in building layout.	Fall 18, Spring 19	CM2205 Construction Layout and Land Surveying	Direct Internal – Quizzes, Exams, Exercises, Field Notebook In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
8. Discuss basic principles of ethics in the construction industry.	Fall 18, Spring 19	CM1305 Construction Estimating CM2205 Construction Layout and Land Surveying CM2210 General Contractors Preparation	Direct Internal – Quizzes, Exams, Exercises, Projects In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
9. Identify the fundamentals of contracts, codes, and regulations that govern a construction project.	Fall 18, Spring 19	CM1115 Commercial Construction Theory CM2210 General Contractors Preparation	Direct Internal – Quizzes, Exams, Exercises, Projects In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
10. Recognize basic construction methods, materials and equipment.	Fall 19, Spring 20	CM1110 Construction Materials and Techniques	Direct Internal – Quizzes, Exams, Exercises, Projects

		CM1215 Construction Equipment and Methods	In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
11. Recognize basic safety hazards on a construction site and standard prevention measures.	Fall 19, Spring 20	OSH2010 Occupational Safety for Construction	Direct Internal – Quizzes, Exams, Exercises, Projects Direct External – OSHA 30hr Card eligibility In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
12. Recognize the basic principles of structural design.	Fall 19, Spring 20	CM2120 Statics	Direct Internal – Quizzes, Exams, Exercises, Projects In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
13. Recognize the basic principles of mechanical, electrical and plumbing systems.	Fall 19, Spring 20	CM1210 Mechanical Electrical Systems and Construction	Direct Internal – Quizzes, Exams, Exercises, Projects In-Direct External – alumni survey, employer survey (Three Year Cycle beginning Fall 18, Spring 19)
	Note 1: Assessment Cycle is 3 years due to Program Re-accreditation Summer 2021		Note 2: All Student Learning Outcomes include In-Direct- Internal Assessment through Student Course Evaluations.