

ASSESSMENT CYCLE PLAN

CENTRAL NEW MEXICO COMMUNITY COLLEGE

Choose **ONE** of the following **3** areas for this assessment plan and insert the name of the general education area, certificate, degree or discipline on the appropriate line:

General Education Area (see definitions, indicate area on appropriate line)

AA/AS _____
AAS _____

Program (note program name on appropriate line)

Certificate _____
AAS Plumbing & Gasfitting _____
AA _____
AS _____

Discipline Area
(see definitions)

1 Provide a list of student learning outcomes for this area or program (you may add more lines if necessary by right clicking and choosing insert row below):

1	Students will recall, discuss, apply, identify, assess, and explain the fundamentals of residential plumbing and gasfitting, as related to the piping and plumbing fixtures. Also, the students will recognize, understand, apply, relate, identify, assess, and explain the importance of safety specific to the plumbing trades.
2	Students will explore, identify, explain, and be able to interpret residential & commercial blueprints, and draw isometric drawings. Also students will interpret, use, relate, and measures the drawings from reading of blueprints.
3	Students will recite, compute, calculate, identify, assess, and explain the arithmetic and basic algebra for volumes, weight measurements and of piping dimensions and off-sets.
4	Students will recall, discuss, apply, identify, assess, and explain the fundamentals of commercial plumbing, as related to the piping and plumbing fixtures. Also, the students will recognize, understand, apply, relate, identify, assess, and explain the importance of safety specific to the plumbing trades.
5	Students will memorize and apply the correct sequence of testing of backflow prevention assemblies, and describe, summarize, identify, test, and explain the requirements of the installation, repair and testing of backflow prevention assemblies.
6	Students will recognize, express, explain, assess, and explain the requirements for installation and repair of gas heating equipment & systems.
7	Students will recognize, express, explain, assess, and explain the requirements for installation and repair of hydronic heating equipment & systems.
8	Students will define, summarize, explain, illustrate, assess, and construct a Solar Thermal Systems, including accessing, installing and evaluating a fully operational solar water heating system.
9	Students will identify, discuss, explain, and illustrate the newest energy-saving techniques for homes and commercial applications as they relate to the plumbing field, which Includes gray water, geo- thermal, energy design and application (LEED), emphasizing energy-saving appliances and low water consumption fixtures.
10	Students will locate and explain the written portions of the Journeyman's test, in the state of New Mexico. Also, students will produce, identify, and explain the Hands-On portions of the Journeyman's test, in the state of New Mexico.

2 Prepare the Preliminary Assessment Cycle for the above student learning outcomes and complete the following chart

Outcome #	When Measured	Where measured (i.e. what course(s))	Measurement tool(s) & Type of tool
1	Every Term (When Offered) 2013 - 2018	PLMB 1105, PLMB 1115, PLMB 1120, & PLMB 1130	Direct: Final Lab Project & Written Final
2	Every Term (When Offered) 2013 - 2018	PLMB 1110	Direct: Written Final
3	Every Term (When Offered) 2013 - 2018	PLMB 1305	Direct: Written Final
4	Every Term (When Offered) 2013 - 2018	PLMB 1125 & PLMB 1210	Direct: Final Lab Project & Written Final
5	Every Term (When Offered) 2013 - 2018	PLMB 1205	Direct: Final Lab Project & Written Final
6	Every Term (When Offered) 2013 - 2018	PLMB 1225	Direct: Final Lab Project & Written Final
7	Every Term (When Offered) 2013 - 2018	PLMB 1230	Direct: Final Lab Project & Written Final
8	Every Term (When Offered) 2013 - 2018	PLMB 1320	Direct: Final Lab Project & Written Final External: NABCEP Exam
9	Every Term (When Offered) 2013 - 2018	PLMB 1330	Direct: Written Final
10	Every Term (When Offered) 2013 - 2018	PLMB 1220 & PLMB 1235	Direct: Final Lab Project & Written Final

