

Student Name _____

High School or Vocational Center _____

COMPETENCY RECORD FOR ARTICULATION

Baker College

Please check below each skill the student has mastered with a minimum of 80 percent accuracy or with an A or B grade.

EET125 AC CIRCUITS

| Task | Satisfactory | Unsatisfactory |
|--|---------------------|-----------------------|
| Properly operate an oscilloscope and a function generator. | | |
| Define capacitance. | | |
| Calculate RC time constants. | | |
| Calculate the total capacitance of a series/parallel capacitor circuit | | |
| Define inductance. | | |
| Calculate RL time constants. | | |
| Calculate the total inductance of series/parallel inductor circuits. | | |
| Calculate the instantaneous values, peak-to-peak, peak, RMS, and average values of an AC waveform. | | |
| Calculate impedance, current, voltage, power, and phase for series/parallel circuits. | | |
| Calculate the resonance of series RLC circuits. | | |
| Calculate the resonance of a parallel RLC. | | |
| Analyze low pass, high pass, bandpass, and notch filters. | | |
| Define magnetism. | | |
| Compose technical reports using the results and data from the experiments performed in a laboratory environment. | | |
| Compare and contrast the frequency and voltage between different countries. | | |

Teacher signature _____ Date _____