Student Learning Outcomes Assessment Summary

Diesel/Heavy Equipment Technology
Community and Technical College
AY 2014-15 and 2015-16

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1. Assessment information collected
   A.) Problem Solving
      a.) Students were given an exit exam to determine their knowledge
          and skills of each subject in all 14 courses.
   B.) Embedded Subjects.
      a.) Students were given an exit exam of embedded courses.
   C.) Job readiness skills.
   D.) Employer survey on new or old skill needed to be emphasized.

2. Conclusions drawn from the information summarized above
   A.) Problem Solving.
      a.) The 22 students who participated, retained and showed satisfactory
          knowledge of the overall 14 courses but showed weaknesses with
          technical knowledge in these specific areas: Basic electrical
          systems, Hydraulics and Welding fabrication (due to insufficient
          tooling and shop space).

   B.) Embedded subjects of computation and communication were
      surveyed with the following results:
      a.) Exit survey showed weaknesses in critical thinking, problem solving.
      b.) Multiple page essays and public speaking tasks proved
          successful.
      c.) To assist with critical thinking a new online learning tool based off
          our text book is being launched AY fall 2016-17.

   C.) Job readiness skills
a.) All students completed and passed resume clinic. They then applied to jobs in the industry. Cover letters and current resumes were collected for review. Graduate job average 70%-85%.

D.) Employer survey on new or old skill needed to be emphasized.

a.) Employers were satisfied with graduates but need more experience with the latest diagnostic troubleshooting equipment related to electrical and emissions repair.

Note: Areas to address

A) Continued to work on general problem solving.
B) Focus more on work place professionalism.
C) Welding Instructor and supplies.

3. Curricular changes resulting from conclusions drawn above

A.) Increase emphasis of the following courses:
   a.) Basic electrical.
   b.) Hydraulics.
   c.) Welding Instructor was changed and necessary supplies are being purchased.

4. Identify the faculty members involved in reaching the conclusions drawn above and agreeing upon the curricular changes resulting

All the Diesel/Heavy Equipment changes were addressed by the Program Coordinator and Instructors, which consist of:
   Tony Simko
   Richard Sothern
   Sam Minnema
   Steve Colby (welding AY2016 fall)
   Sheldon Maier (welding AY2016 spring to current)