

Natural Gas Program Executive Summary

Purpose/Goal

- Since Barton Community College’s Natural Gas Transmission and Distribution program is nearing its six year in operation combined with advisory board discussions, we have determined changes needed to be made to the program curriculum and courses.

Course Changes

- Fundamentals of Natural Gas (NATG 1110) will be rewritten to provide students with a basic understanding of natural gas, basic natural gas chemistry, gas quality, spot sampling, and the gas laws.
- Introduction to Gas Technology, Intermediate Gas Technology and Regulators will be deactivated. Two new courses, Natural Gas Transmission and Natural Gas Distribution, will be developed using the information included in the three deactivated class. This will streamline instruction by eliminating redundancy in course outcomes and competencies.
- Develop a First Aid for the Natural Gas Industry course that will encompass all aspects of the First Aid course that is currently required with additional basic safety information for the Natural Gas industry. This course will need to retain its general education designation to fulfill KBOR general education requirements for an AAS degree.

Certificate Changes

- Trenching and Excavation Practices (NATG 1160) will be removed as a requirement.
- Gas Measurement and Controls (NATG 1170) will be added as a requirement.
- College Algebra will be added as an alternative to Technical Math.
- Business Communication will replace Business English.
- New courses, Natural Gas Transmission and Natural Gas Distribution, will replace Introduction to Gas Technology and Intermediate Gas Technology and Regulators.
- Total credit hours change to 35 hours from 33 hours.

<input type="checkbox"/> MATH	1806/ 1828	Technical Mathematics or College Algebra	3
<input type="checkbox"/> NATG	1100	DC Circuit Fundamentals	3
<input type="checkbox"/> NATG	1105	AC Circuit Fundamentals	4
<input type="checkbox"/> NATG	1110	Fundamentals of Natural Gas	3
<input type="checkbox"/> NATG	1135	Basic Corrosion Field Technician	3
<input type="checkbox"/> NATG		Natural Gas Transmission	3
<input type="checkbox"/> NATG		Natural Gas Distribution	3
<input type="checkbox"/> NATG	1125	Electrical Devices & Controls I	3
<input type="checkbox"/> NATG	1150	Introduction to Programmable Logic Controllers	3
<input type="checkbox"/> BUSI	1800	Business Communication	3
<input type="checkbox"/> NATG	1170	Gas Measurement and Controls	4
TOTAL			35

Degree Changes:

- Business Communication will replace Business English.
- Trenching and Excavation Practices will move to an elective.
- Develop a First Aid for the Natural Gas Industry course that will encompass all aspects of the First Aid course that is currently required with additional basic safety information for the Natural Gas industry. This course will need to retain its general education designation to fulfill KBOR general education requirements for an AAS degree.

Overall Rationale:

- After consulting the Natural Gas advisory board regarding the trenching course, it was decided the industry no longer thinks it should be a requirement. However, it is still a viable option for an elective, if a student has the interest in taking the class.
- The outcomes and competencies of Business Communication better align with the employment needs of the gas industry.
- The three deactivated courses had redundant information. Streamlining outcomes and competencies will provide a better learning experience for students.

Respectfully Submitted:

Mary Foley – Executive Director, Workforce Training & Economic Development
Tina Grillot –Coordinator of Industrial Technology Programs