GAS DISTRIBUTION

COURSE DESCRIPTION

Gas Distribution provides the students with the basics of the exploration, production, transmission, and delivery of natural gas. Topics include history and scope of the natural gas industry, the construction and maintenance of the delivery system, regulatory requirements, and the pressure regulation for transmission, distribution, commercial and residential systems. Safety for the customer, community, and the infrastructure is stressed.

COURSE OBJECTIVES

After completing this course, you should be able to:

1. Outline the history, size, and scope of the gas industry including markets, operations and careers.
2. Explain the relationship between exploration, production, transmission, and delivery of natural gas.
3. Compare the construction and maintenance requirements for the low-pressure, medium pressure, and high-pressure systems.
4. Plan a safety system for a Natural Gas System including leak detection, damage prevention, corrosion control, and leak repair incompliance with the Operator Qualification regulation.
5. Discuss the methods used to insure safe operation of a system.

COURSE MATERIALS

You will need the following materials to complete your coursework. Some course materials may be free, open source, or available from other providers. You can access free or open-source materials by clicking the links provided below or in the module details documents. To purchase course materials, please visit the University's textbook supplier.

Required Textbook

- *Natural Gas In Nontechnical Language*, edited by Rebecca Busby (Tulsa, Oklahoma: PennWell Corporation, 1999).
  ISBN-13: 978-0878147380

COURSE STRUCTURE

Gas Distribution is a three-credit online course, consisting of **five** modules. Each module includes learning objectives, study materials, activities and a portion of the final project. Module titles are listed below.

- **Module 1: Natural Gas History**

- **Module 2: Natural Gas Supplies**

- **Module 3: The Gas Delivery System**

- **Module 4: Gas System Construction**

- **Module 5: Gas System Maintenance and Safety**

ASSESSMENT METHODS

For your formal work in the course, you are required to participate in six graded class discussions, complete five written assignments, and complete a final project. See below for more details.

Consult the Course Calendar for assignment due dates.

Promoting Originality

One or more of your course activities may utilize a tool designed to promote original work and evaluate your submissions for plagiarism. More information about this tool is available in [this document](#).

💬 *Discussion Forums*

In addition to an ungraded "Introductions" forum in module 1, **Gas Distribution** requires you to participate in **six** graded online discussion forums. In addition, there is an optional Discussion Forum 7 for you to share your final report of the final project.

Communication with the mentor and among fellow students is a critical component of online learning. Participation in online discussions involves two distinct activities: an initial response to a posted question and subsequent comments on classmates' responses.

You will be evaluated both on the quality of your responses (i.e., your understanding of readings and concepts as demonstrated by well-articulated, critical thinking) and quantity of your participation (i.e., the

number of times you participate meaningfully in the assigned forums). Responses and comments should be properly proofread and edited, professional, and respectful.

Meaningful participation in online discussions is relevant to the content, adds value, and advances the discussion. Comments such as "I agree" and "ditto" are not considered value-adding participation. Therefore, when you agree or disagree with a classmate, the reading, or your mentor, state **and support** your agreement or disagreement.

For posting guidelines and help with discussion forums, please see the Student Handbook located within the General Information page of the course Web site.

📋 *Written Assignments*

The **five** written assignments consist of several essay questions that are related to module objectives.

Prepare your written assignments using whatever word processing program you have on your computer. Include your name at the top of the paper, as well as the course name and code and the semester and year in which you are enrolled.

Before submitting your first assignment, check with your mentor to determine whether your word processing software is compatible with your mentor's software. If so, you can submit your work as you prepared it. If not, save your assignment as a rich-text (.rtf) file, using the Save As command of your software program. Rich text retains basic formatting and can be read by any other word processing program.

For help regarding preparing and submitting assignments, see the Student Handbook located within the General Information page of the course Web site.

📋 *Final Project*

There will be a final project that includes five parts. In each module, you are required to research on one part of your selected company. In the final week, you will submit the final report - a 7 to 12 page paper (1500 to 3000 words) on the company you have researched. The detailed instructions are stated in each assignment module. There are no quizzes or examinations in this course.

For help regarding preparing and submitting activities, see the Student Handbook located within the General Information page of the course Web site.

GRADING AND EVALUATION

Your grade in the course will be determined as follows:

- **Online discussions (6)**—25 percent
- **Written assignments (5)**—25 percent
- **Module activities for final project (5)**—30 percent
- **Final report for final project**—20 percent

All activities will receive a numerical grade of 0–100. You will receive a score of 0 for any work not submitted. Your final grade in the course will be a letter grade. Letter grade equivalents for numerical grades are as follows:

A	= 93–100	C+	=	78–79
A–	= 90–92	C	=	73–77
B+	= 88–89	C–	=	70–72
B	= 83–87	D	=	60–69
B–	= 80–82	F	=	Below 60

To receive credit for the course, you must earn a letter grade of C or better (for an area of study course) or D or better (for a course not in your area of study), based on the weighted average of all assigned course work (e.g., exams, assignments, discussion postings, etc.).

STRATEGIES FOR SUCCESS

First Steps to Success

To succeed in this course, take the following first steps:

- Read carefully the entire Syllabus, making sure that all aspects of the course are clear to you and that you have all the materials required for the course.

- Take the time to read the entire Online Student Handbook. The Handbook answers many questions about how to proceed through the course, how to schedule exams, and how to get the most from your educational experience at Thomas Edison State University.

- Arrange to take your examination(s) by following the instructions in this Syllabus and the Online Student Handbook.

- Familiarize yourself with the learning management systems environment—how to navigate it and what the various course areas contain. If you know what to expect as you navigate the course, you can better pace yourself and complete the work on time.

- If you are not familiar with Web-based learning be sure to review the processes for posting responses online and submitting activities before class begins.

Study Tips

Consider the following study tips for success:

- To stay on track throughout the course, begin each week by consulting the Course Calendar. The Calendar provides an overview of the course and indicates due dates for submitting activities, posting discussions, and scheduling and taking examinations.

- Check Announcements regularly for new course information.

Using AI Ethically: A Guide for TESU Students

TESU's Academic Code of Conduct permits student AI use in support of their writing and research process--not as a replacement for original writing. Document AI use with an acknowledgment statement at the end of each assignment, noting the tools and prompts used. Cite any AI-generated content on the References page. Please review Using AI Ethically: A Guide for TESU Students for more detailed information.

ACCESSIBILITY AND ACCOMMODATIONS

Thomas Edison State University adheres to the Americans with Disabilities Act (ADA, 1990; ADAAA, 2008) and Section 504 of the Rehabilitation Act of 1973. The Office of Student Accessibility Services (OSAS) oversees requests for academic accommodations related to disabilities; a student who is pregnant, postpartum, or a student parenting a newborn who is not the birth parent [as covered under NJSA18A]; and students requesting academic accommodation for a short-term/temporary illness and/or injury. Information can be found on the Office of Student Accessibility Services webpage and questions can be sent to ADA@tesu.edu.

ACADEMIC POLICIES

To ensure success in all your academic endeavors and coursework at Thomas Edison State University, familiarize yourself with all administrative and academic policies including those related to academic integrity, course late submissions, course extensions, and grading policies.

For more, see:

- University-wide policies
- Undergraduate academic policies
- Undergraduate course policies
- Graduate academic policies
- Graduate course policies
- Nursing student policies
- Nursing graduate student policies

- [International student policies](#)
- [Academic code of conduct](#)