EXCELSIOR COLLEGE

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CENTER FOR PROFESSIONAL DEVELOPMENT

OIL REFINERY OPERATIONS

400 Hours/12 Months/Instructor-Facilitated
Course Code: **CPD098** || Course Cost: **$2595**

OVERVIEW

Qualified oil refinery operators are in demand, and our online program in Oil Refinery Operations will prepare you for entry into this industry. This is a high-paying field with excellent benefits and a stable work environment. Plus, operators are very often promoted to management.

This unique program will teach you the skills you need to be hired as an oil refinery operator: how to monitor instrumentation, maintain safety, troubleshoot, and make adjustments. In addition, you will learn how to think on your feet, solve problems, and communicate effectively with all levels of personnel. Upon program completion, you will have earned an Excelsior College certificate which will not only open career doors, but show employers that you are management material.

OBJECTIVES

Upon successful completion of this program, students should be able to:

- Operate an oil refinery with safety as the prime consideration
- Monitor instrumentation and the operation of equipment
- Make adjustments to keep system process variables such as flows, temperatures and pressures within acceptable ranges
- Detect potential and actual problems and take corrective action to prevent the interruption of system operations
- Analyze operational trends and take corrective actions
- Use standard operating procedures to start/stop production equipment
- Maintain communication with other operators, maintenance and the management

OUTLINE

This is a comprehensive course and consists of a number of learning modules. Each of the modules addresses a specific scope and consists of an online test. The pass mark for the tests is 70% - however the students are allowed to take the tests a number of times.

This course consists of the following modules:

- Basic Safety
- Basic Hazard Communication
- Basic Lockout-Tagout
- Math 1000: Basic Math 1

- Math 2000: Basic Math 2
- Math 2500: Basic Math 3
- Applied Physics 1
- Applied Physics 2
- Applied Physics 3
- Heat Exchangers
- Lubrication and Bearings
- Electrical Safety
- Electricity for Operators and Technicians
- Industrial Valves
- Compressed Air
- How to Read Process Drawings
- Basic Process Instrumentation and Control
- Pump Fundamentals
- Centrifugal Pumps – Operation
- Refining 1000: Introduction to Petroleum Refining
- Refining 2000: Distillation Technology
- Refining 3000: Basic Refinery Processes

COMPUTER REQUIREMENTS

- PC running Windows XP or later
- Internet connection (high-speed recommended) and a working e-mail account