



v c c . c a

DRFT 2262: Diploma Pipe Components: Pipe, Fittings, Valves, Supports and Pumps

EFFECTIVE DATE

September 2021

DEPARTMENT

Drafting

DESCRIPTION

Students will learn the components used in process and utility piping systems. Industry standard sizes, ratings and designations will be discussed.

CREDITS

1.0

YEAR OF STUDY

2nd Year Post-secondary

PREREQUISITES

DRFT 2100 Integrated BIM Project

COREQUISITES

None

COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Explain how pipe wall schedules are determined and documented.
- Identify the different types of pipe, fittings, flanges, pumps and connections used in piping systems.
- Compare the different materials used for the piping systems and where they are commonly used.
- Identify the different types of valves and how they are used in piping systems.
- Discuss the different pipe support and hangers and where they might be used.
- Create a block library of piping symbols to be used in piping layout drawings.
- Apply the concepts and processes at a higher level, in a 3D Building Information Modeling setting.

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 10

Lab: 20

INSTRUCTIONAL STRATEGIES

Lectures, video presentations, project-/problem-based learning, lab activities. The course may be offered face-to-face or in a blended format (mix of face-to-face and online)

GRADING SYSTEM

Letter Grade (A-F)

PASSING GRADE

D

EVALUATION PLAN

Type	Percentage	Assessment activity
Project	60	Minimum of 3 project-based major assignments of approximately equal value.
Quizzes/Tests	10	
Final Exam	30	

COURSE TOPICS

- Terminology, Abbreviations, & Symbols in pipe components
- Pipe Schedules
- Pipe Fittings, Flanges and Supports
- Piping Component Connections
- Valves and Pumps: Types and Application
- Creating Blocks from Vendor Catalogs

LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

Broadway campus

1155 East Broadway
Vancouver, B.C. Canada
V5T 4V5

Downtown campus

250 West Pender Street
Vancouver, B.C. Canada
V6B 1S9

Annacis Island campus

1608 Cliveden Avenue
Delta, B.C. Canada
V3M 6P1

604.871.7000

VCC.ca

Generated at: 6:42 pm on Apr. 10, 2021