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DRFT 1365: Piping BIM Project & Specification Setup

EFFECTIVE DATE

September 2021

DEPARTMENT

Drafting

DESCRIPTION

This course is designed to teach students how to use the BIM Project Manager to create and manage a project and create new 3D models. Students will also learn how to use BIM Piping and Instrumentation Diagram (P&ID) tools to create drawings linked to piping specifications. Piping specifications will for the projects will be created by modifying existing pipe specifications.

CREDITS

1.0

YEAR OF STUDY

1st Year Post-secondary

PREREQUISITES

DRFT 1256 Plumbing Systems for Buildings DRFT 1257 Electrical Systems for Buildings DRFT 1258 Utility Data and Setting-Up Projects DRFT 1259 HVAC Systems for Buildings DRFT 1260 Fire Suppression and Sprinkler Systems for Buildings DRFT 1261 Process Flow Diagrams and Tank/Pump Box Fabrication DRFT 1262 Pipe Components: Pipe, Fittings, Valves, Supports and Pumps DRFT 1263 Piping and Instrumentation Diagrams & Specifications DRFT 1264 Plant and Equipment Layout DRFT 1265 Process and Utility Piping Layout DRFT 1266 Piping Fabrication Isometrics

COREQUISITES

None

COURSE LEARNING OUTCOMES

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

- Create projects using the piping BIM software
- Set up drawing files for creation of P&IDs & 3D models
- Use the BIM 3D Spec Editor to create piping specifications
- Create 3D Blocks applicable to the project

- Use the tools required to create projects and specification
- Create intelligent P&IDs linked to piping specifications
- Construct equipment and pump symbology required for the project

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	70	Minimum of 3 project-based major assignments of approximately equal value.
Quizzes/Tests	20	
Participation	10	

COURSE TOPICS

- Create Projects in the Piping BIM Software
- Setup drawing files for creation of P&ID's & 3D Models
- Use the BIM 3D Spec Editor to create Piping Specifications
- Create 3D Blocks applicable to the Project
- Explore the Tools required to create Projects and Specifications
- P&ID Drawing Fundamentals, Palettes and Tools
- Link Lines to Pipe Specifications

- Grouping Process Lines to Group

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>.

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Downtown campus

250 West Pender Street
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