

## PLBG1135 - Drainage, Waste and Venting

| Credits:           | 4 (4/0/0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Description:       | This course covers drainage, waste and venting (DWV) as required in the Minnesota Plumbing<br>Code and the North Dakota Plumbing Code. Emphasis is on differences between types of<br>drainage, waste and venting systems and applying the code regulations in sizing the systems.<br>Drawing isometrics for a DWV system will be covered.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Prerequisites:     | • PLBG1123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Corequisites:      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Pre/Corequisites*: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Competencies:      | <ol> <li>Define materials used for DWV systems.</li> <li>Describe an individually vented drainage system.</li> <li>Describe a horizontal wet venting system.</li> <li>Size a horizontal wet venting system.</li> <li>Describe a vertical wet venting system.</li> <li>Size a vertical wet venting system.</li> <li>Size a vertical wet venting system.</li> <li>Size a dry venting system.</li> <li>Size a dry venting system using cross-sectional venting sizing.</li> <li>Describe a combination waste and venting system.</li> <li>Size a combination waste and venting system.</li> <li>Size a combination waste and venting system.</li> <li>Size an indirect waste system.</li> <li>Size an indirect waste system.</li> <li>Differentiate between gravity and pressure drainage systems.</li> <li>Size a pressure drainage system.</li> <li>Size a pressure drainage system.</li> <li>Draw isometrics for a DWV system.</li> </ol> |
| MnTC goal areas:   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

\**Can be taking as a Prerequisite or Corequisite.*