

## REFR1112 - Refrigeration, Air Conditioning and Heating Lab

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| Credits:           | 3 (0/3/0)  |
| Description:       | This course covers the operation and service procedures of domestic refrigeration and an introduction to residential heating and air conditioning and commercial refrigeration equipment.  |
| Prerequisites:     |  |
| Corequisites:      |  |
| Pre/Corequisites*: | • REFR1110   |
| Competencies:      | <ol style="list-style-type: none"> <li>1. Demonstrate good and safe shop practices.</li> <li>2. Troubleshoot air conditioner electrical problems with Simutech and Omnidata trainers.</li> <li>3. Demonstrate parts cross-referencing and purchasing techniques.</li> <li>4. Operate bench refrigeration trainer pump-down system and expansion valve.</li> <li>5. Demonstrate operation of electrical systems of refrigeration bench trainer.</li> <li>6. Troubleshoot refrigeration system component faults and repair.</li> <li>7. Troubleshoot domestic appliance refrigeration and electrical faults.</li> <li>8. Demonstrate wiring of split system air conditioning.</li> <li>9. Demonstrate installation methods of appliances.</li> </ol> |
| MnTC goal areas:   | None   |

\*Can be taking as a Prerequisite or Corequisite.