Master and Journeyman Steam and Hot Water Content and References (revised 4/8/2016)

| 775 Minnesota (Minneapolis) Master Steam and Hot Water | | 100 multiple choice questions |
|--|------------|--|
| Passing Score: 75% | | Exam Fee: \$105 (CBT) |
| | | Open Book - 3 hour time limit |
| Content Area | % of Total | Reference |
| General | 25% | 1. 2015 Minnesota Mechanical and Fuel Gas |
| Piping and Equipment Installation | 20% | Code |
| Pipes, Valves, Fittings, Accessories | 10% | 2. Low Pressure Boilers, 3rd ed., Frederick M. |
| Hydronics (Hot Water & Chilled Water) | 15% | Steingress |
| Steam | 20% | 3. 2008 ASHRAE Handbook <i>Hydronic</i> |
| Controls | 10% | Heating, Ch 10 and 12 |
| | | |
| | | |
| Total | 100% | |

| 776 Minnesota (Minneapolis) Journeyman Steam and Hot Water Passing Score: 70% | | 100 multiple choice questions Exam Fee: \$105 (CBT) |
|---|------------|--|
| | | |
| Content Area | % of Total | Reference |
| General | | 1. 2015 Minnesota Mechanical and Fuel Gas |
| Warm Air Heating | | Code |
| Ventilation | | 2. Low Pressure Boilers, 3rd Ed.m, Frederick |
| Duct Construction | | M. Steingress |
| Insulation | | 3. 2008 ASHRAE Handbook Hydronic Heating, |
| Combustion Air | | Ch 10 and 12 |
| | | |
| | | |
| Total | 100% | |