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| Knowledge | Skills | Performance Element | 15.0000 Engineering, General (2011) |
| | | | Technical Standards - Michigan Customized List |
| IV | | | Engineering Systems |
| | A | | Discuss physical properties and characteristics of materials used in engineering systems |
| | | 1 | Identify common materials used in engineering projects |
| | | a | metals--ferrous and non-ferrous |
| | | b | plastics and polymers |
| | | c | renewable materials |
| | | d | ceramics (such as glass, rubber, and plastic), and other materials. |
| | | 2 | Compare and contrast physical properties of materials |
| | | 3 | Select correct materials for specific functions |
| | | 4 | Perform test and destructive testing of materials for specific characteristics |