

Knowledge	Skills	Performance Element	
			15.0000 Engineering, General (2011)
			Technical Standards - Michigan Customized List
IV			Engineering Systems
	B		Demonstrate an understanding of and be able to select and use transportation and logistical engineering technologies
		1	Service products to keep them in good operating condition.
		2	Classify materials based on their qualities as natural, synthetic, or mixed.
		3	Classify goods as durable goods designed to operate for a long period of time, or non-durable goods designed to operate for a short period of time.
		4	Identify and classify manufacturing systems into types, such as customized production, batch production, and continuous production.
		5	Discuss the interchangeability of parts to increase the effectiveness of manufacturing processes.
		6	Employ marketing techniques involving establishing a product's identity, conducting research on its potential, advertising it, distributing it, and selling it.
		7	Analyze the vital role played by transportation in the operation of other technologies, such as manufacturing, construction, communication, health and safety, and agriculture.
		8	Define intermodalism as the use of different modes of transportation, such as highways, railways, and waterways as part of an interconnected system that can move people and goods easily from one mode to another.
		9	Discuss how transportation services and methods have led to a population that is regularly on the move.
		10	Identify processes and innovative techniques involved in the design of intelligent and non-intelligent transportation systems.