Business Logistics

Course Description

Distribution and Logistics is a study of the acquisition, storage, use, packaging, transportation and distribution of materials and products. Topics covered include: management of materials and physical distribution; transportation choices, regulation and rates; traffic management; product storage, warehousing, handling and packaging; inventory management; acquisition and production scheduling; order entry and processing; logistics systems design and operation; and international logistics.

Course Code:

Program(s) of Study to which This Course Applies

- Logistics Planning and Management

Course Framework	Reference Standards	Academic Crosswalk
Standard 1. Students will explain the importance of physical distribution and materials management within a business.	KS - BAPE05.01.04 KS - BAPE05.01.07	
Benchmark 1.1 The student will discuss the primary logistics activities of transportation, inventory maintenance and order processing. <u>Sample performance indicators:</u> • Explain inventory maintenance and order processing. • Contrast different transportation systems and their effects on logistics.	KS - BAPE05.01.04	MA12.1.2 (1) CCSS: MA(N-CN) (1) LA12.1.5.b (1) LA12.1.6.d (1) LA12.1.6.f (1) LA12.2.2.c (1)
Benchmark 1.2 The student will discuss the supporting logistics activities of warehousing, material handling, protective packaging, and product scheduling. <u>Sample performance indicators:</u> • Contrast different material handling techniques.	KS - BAPE05.01.0	MA12.1.2 (1) CCSS: MA(N-CN) (1) MA12.1.4 (1) CCSS: MA(N-

• Produce a production schedule.		Q: 3) (1) LA12.1.5.b (1) LA12.1.6.d (1) LA12.1.6.f (1) LA12.2.2.c (1)
Standard 2. Students will explain the logistics demand placed upon the firm and its product.	KS - BAPE02.01.01 KS - BAPE05.01.04 KS - BAPE05.01.05 KS - BAPE05.01.07 KS - TRPB01.01.06	
Benchmark 2.1 The student will describe the components of an order cycle. <u>Sample performance indicators:</u> • Analyze an order cycle. • Create an order cycle diagram.	KS - BAPE05.01.04	LA12.1.5.b (1) LA12.1.6.d (1) LA12.1.6.f (1) LA12.2.2.c (1)
Benchmark 2.2 The student will explain the importance of product packaging. <u>Sample performance indicators:</u> • Compare and contrast different types of product packaging. • Describe advantages to different types of packaging.	KS - BAPE05.01.05 KS - TRPB01.01.06	MA12.1.3 (1) CCSS: MA(N-CN) (1) MA12.2.5 (1) CCSS: MA(G-GMD) (1) LA12.1.5.b (1) LA12.1.6.d (1) LA12.1.6.f (1) LA12.2.2.c (1)
Benchmark 2.3 The student will explain the methods of geographically related product pricing and logistical pricing incentives. <u>Sample performance indicators:</u> • Define zone pricing. • Compare single and uniform pricing. • Define basing point pricing.	KS - BAPE05.01.07	MA12.1.2 (1) CCSS: MA(N-CN) (1) LA12.1.5.b (1) LA12.1.6.d (1) LA12.1.6.f (1) LA12.2.2.c (1)
Benchmark 2.4 The student will explain what logistics customer service is.	KS - BAPE02.01.01	LA12.1.5.b (1) LA12.1.6.d (1)

Sample performance indicators: • Identify pre-transaction elements. • Identify transaction elements. • Identify post-transaction elements.		LA12.1.6.f (1) LA12.2.2.c (1)
Standard 3. Students will explain and develop a logistics mix and its influence on business operations.	KS - BAPE01.01.02 KS - BAPE05.01.07 KS - TRPB01.01.02 KS - TRPB01.01.03 KS - TRPB01.01.06	
Benchmark 3.1 The student will explain the importance of a transportation system. Sample performance indicators: • Compare and contrast single product and multi-product service. • Identify ideal transportation solutions for given logistics problems. • Analyze the scope of transportation within a given geographic area.	KS - BAPE05.01.07 KS - TRPB01.01.02	LA12.1.5.b (1) LA12.1.6.d (1) LA12.1.6.f (1) LA12.2.2.c (1)
Benchmark 3.2 The student will explain the different transportation regulations and rates. Sample performance indicators: • Identify cost characteristics. • Explain line-haul rates and the different types.	KS - BAPE01.01.02	MA12.1.2 (1) CCSS: MA(N-CN) (1) LA12.1.5.b (1) LA12.1.6.d (1) LA12.1.6.f (1) LA12.2.2.c (1)
Benchmark 3.3 The student will explain transportation management. Sample performance indicators: • Identify different career solutions for different problems. • Compare and contrast common and private carriers.	KS - BAPE05.01.07 KS - TRPB01.01.03	LA12.1.5.b (1) LA12.1.6.d (1) LA12.1.6.f (1) LA12.2.2.c (1)
Benchmark 3.4 The student will discuss and explain product handling, packaging, storage, and management. Sample performance indicators: • Identify different material handling choices. • Design product handling and packaging systems. • Produce alternative packaging ideas.	KS - BAPE05.01.07 KS - TRPB01.01.06	MA12.1.3 (1) CCSS: MA(N-CN) (1) MA12.2.5 (1) CCSS: MA(G-GMD) (1) LA12.1.5.b (1) LA12.1.6.d (1) LA12.1.6.f (1)

		LA12.2.2.c (1)
Standard 4. Students will discuss and describe proper techniques of information accumulation and development of plans and operation monitoring.	KS - BAPE04.01.01 KS - BAPE05.01.07	
Benchmark 4.1 The student will describe how management information systems influences the design and control of logistics systems. <u>Sample performance indicators:</u> • Identify where data is obtained. • Explain how management information system manipulates the data. • Produce usable logistics information from given data.	KS - BAPE05.01.07	LA12.1.5.b (1) LA12.1.6.d (1) LA12.1.6.f (1) LA12.2.2.c (1)
Benchmark 4.2 The student will discuss strategic, tactical and systems planning. <u>Sample performance indicators:</u> • Explain cost trade-offs. • Explain a differentiated distribution strategy.	KS - BAPE05.01.07	MA12.1.2 (1) CCSS: MA(N-CN) (1) LA12.1.5.b (1) LA12.1.6.d (1) LA12.1.6.f (1) LA12.2.2.c (1)
Benchmark 4.3 The student will discuss the impact of environmental problems, geographic trends, cost trends, computer technology, and availability of raw materials have on logistics. <u>Sample performance indicators:</u> • Compare and contrast different logistics computer technology. • Explain the importance of the availability of raw materials has on logistics. • Explain the effects that environmental problems have on logistics.	KS - BAPE04.01.01	SC12.4.2.c (1) LA12.1.5.b (1) LA12.1.6.d (1) LA12.1.6.f (1) LA12.2.2.c (1)
Standard 5. Students will survey the future of logistics and respond to new changes.	KS -BAPE05.01.09 KS - TRPB01.02.03	
Benchmark 5.1 The student will monitor current events in logistics and their influence on the future. <u>Sample performance indicators:</u> • Compare and contrast new and emerging logistics technologies.	KS - BAPE05.01.09 KS - TRPB01.02.03	MA12.1.4 (1) CCSS: MA(N-Q: 3) (1) LA12.1.5.b (1) LA12.1.6.d (1)

• Compare and contrast new and emerging logistics techniques.		LA12.1.6.f (1) LA12.2.2.c (1)

Reference Standards Sources

- KS = Career Clusters Knowledge and Skills Statements. Revised 2008. National Career and Technical Education Foundation, Silver Spring, MD. www.careerclusters.org.

Creation date: July 23, 2010

Approval date:

Revision date *(if changes made after final draft)*:

Other Information

Suggestions for innovative teaching and learning strategies:	•
Related assessments:	•
Extended learning opportunities:	• •