

MODULE LOG1030: TRAFFIC & TRANSPORT 1

Level: Introductory

Theme: Traffic and Transportation

Prerequisite: LOG1010 Logistics

Module Description: Students distinguish among modes, vehicles and vessels involved in transportation, identify the advantages and disadvantages of single mode and intermodal usages, and demonstrate basic skills relating to map reading, technology, handling equipment and handling dangerous goods.

Module Parameters: Access to logistics-related traffic and transportation operations; a driver's licence may be required.

Curriculum and Assessment Standards

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none">• identify modes of transportation and vehicles and vessels used in each mode• differentiate and explain the advantages and disadvantages of:<ul style="list-style-type: none">– single mode usages– intermodal usages• demonstrate:<ul style="list-style-type: none">– map-reading skills– using technology– handling dangerous goods– handling equipment	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none">• the student's ability to report on:<ul style="list-style-type: none">– transportation modes, vehicles and vessels– single mode and intermodal usages– impact and uses on traffic and transportation• the appropriateness, quality and level of safety demonstrated when performing basic traffic and transportation functions including:<ul style="list-style-type: none">– using related technology– handling dangerous goods– equipment handling. <p><i>Assessment Tool</i> <i>LOG1030: Traffic & Transportation 1</i> <i>Competency Profile and Assessment Checklist</i></p> <p><i>Standard</i> <i>A minimum performance rating of 1 for each applicable area of assessment</i></p>	<p>20</p> <p>10</p> <p>10</p> <p>60</p>

MODULE LOG1030: TRAFFIC & TRANSPORT 1 (continued)

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> demonstrate basic competencies. 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> observations of individual effort and interpersonal interaction during the learning process. <p><i>Assessment Tool</i> <i>Basic Competencies Reference Guide and any assessment tools noted above</i></p>	<p>Integrated throughout</p>

Concept	Specific Learner Expectations	Notes
<p>Traffic and Transportation</p> <ul style="list-style-type: none"> Modes, Vehicles and Vessels 	<p><i>The student should:</i></p> <ul style="list-style-type: none"> identify and describe the role of traffic and transportation in logistics distinguish between the concepts of traffic and transportation when used in logistics contexts explain the advantages and disadvantages of different vehicles and vessels used in the following modes of transportation: <ul style="list-style-type: none"> air; e.g., commercial, charter rail surface; e.g., commercial, contract, hotshot sea pipeline describe the advantages and disadvantages of using each of the following transportation systems: <ul style="list-style-type: none"> single mode intermodal. 	
<p>Product-specific Requirements</p>	<ul style="list-style-type: none"> list and describe product-specific transportation equipment available for a selection of products, list the: <ul style="list-style-type: none"> most appropriate mode of transportation product-specific requirements; e.g., refrigeration, speed, air ride trailers for delicate equipment other requirements; e.g., time, temperature, packing. 	

MODULE LOG1030: TRAFFIC & TRANSPORT 1 (continued)

Concept	Specific Learner Expectations	Notes
Map Reading	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • demonstrate ability to use a map to: <ul style="list-style-type: none"> – identify specific locations – trace routes – measure distances – identify key features. 	
Electronic Data Interchange (EDI) and Related Technology	<ul style="list-style-type: none"> • define and describe EDI • list examples of information that may be transmitted using EDI and related technology • use available hardware and software. 	<p>The resource, <i>EDI: Technology in Trucking</i>, is available from American Trucking Association/ Management Systems Council, 2200 Mill Road, Alexandria, VA 22314-4677. Telephone: 703-838-1721.</p>
Safety Standards	<ul style="list-style-type: none"> • identify and describe basic safety procedures, practices and standards that must be followed in each mode and for each vehicle, such as: <ul style="list-style-type: none"> – on-highway standards – off-highway standards – air/sea freight standards – customer safety standards • use personal protective equipment. 	<p>Refer to Canadian Transportation Law Reports and/or related national, provincial, municipal safety legislation and regulations.</p>
Dangerous Goods	<ul style="list-style-type: none"> • describe the range of goods identified as “dangerous goods” • describe the methods used to identify and label different dangerous goods • demonstrate safe handling of dangerous goods. 	
Career Opportunities	<ul style="list-style-type: none"> • identify and describe current and emerging career opportunities specific to traffic and transportation • identify and describe requirements for entry into a purchasing career at: <ul style="list-style-type: none"> – entry level – skilled level – supervisory level – management level. 	<p>Include as many requirements as possible; e.g.:</p> <ul style="list-style-type: none"> • academic • teamwork • communication skills • numeracy skills • ability to use technology.