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**Maritime and Transportation Industry Webquest**

**Introduction**

Think of your favorite possession. Now think about the process that possession may have taken to get from the place of its manufacture to your home. Many of the products you use on a daily basis are manufactured several thousand miles away from your home. Your favorite possession may have travelled here by more than one form of transportation also known as intermodal transportation. The logistics to bring your favorite possession to your home most likely involved several hundred people.

 Just like an atom has sub-atomic particles, your favorite possession also may have smaller parts that make up the whole item. The majority of those smaller parts of your favorite possession travelled to the factory by truck, train, and/or ship. Your favorite possession could have been manufactured at a factory and again shipped to a warehouse, transported to an intermodal port, shipped to a warehouse and then shipped to one of your favorite stores. These intermodal ports work like a well-oiled machine to keep track of your favorite possession.

**Task**

To create a five minute digital artifact that illustrates the route one of your favorite possessions may have taken after it is manufactured overseas and delivered to your home. You must also explain the modes of transportation your favorite possession may have taken along the way and explain the occupation of the workers involved.

**Process**

You and your team members should view various websites and answer the following questions and statements that will guide you through completing your task.

The team should divide up the websites to review and each student should answer as many questions and statements listed below as possible. Do not worry if you do not have all the information, when you meet again as a group, you will be able to share the information you gathered with others and bring the ideas together. During each teammates travel through the World Wide Web, they may discover other great sources of information. Be sure to document these as well (Excellent Digital Citizenship).

Your group should choose an object then create your digital artifact and explain the modes of transportation used, as well as, explain the occupations involved in moving the object from its point of manufacture to a team members home.

As a group discuss these questions and statements and formulate your answers:

* Describe the location and the entities that make up the Port of Virginia.
* What is an intermodal port?
* What are logistics?
* What is a logistician and what types of work do they perform?
* Where can you study logistics?
* Describe the work of a harbor pilot or a port pilot work.
* Compare and contrast the terms “blue water” and brown water.”
* What are the four major competencies of a crane operator and describe them.
* What is a RO-RO and what is the name of the crew that on-loads and off-loads the cargo?
* How did the cars get on and off the ship in Singapore?
* What is the problem with “time in port” for a ship?
* Explain how the control center manages the Port of Singapore.
* What are the three shipboard departments and explain what each department is responsible for?
* Describe the various types of work does a longshoreman perform.
* What is involved in port security and why is port security important?

**Evaluation:** Grading Rubric (if the learning target is not addressed, no points will be awarded)

|  |  |  |  |
| --- | --- | --- | --- |
| Learning Target | 3 Points | 2 Points | 1 Point |
| **Digital Artifact** | Artifact is at least five minutes in length and is well organized | Artifact is at least five minutes in length and is somewhat organized | Artifact is less than five minutes in length or is unorganized |
| **Logistics** | Artifact evaluates the importance of logistics in the movement of objects around the world | Artifact examines the importance of logistics in the movement of objects. | Artifact predicts the importance of logistics |
| **Route** | Artifact includes a map and explains the route the object may have taken | Artifact includes a map and somewhat describes the route the object may have taken | Artifact includes a map or somewhat describes the route the object may have taken |
| **Modes of Transportation** | Artifact explains the different modes of transportation that may be used to move an object and connects the various modes to each other | Artifact explains the different modes of transportation that may be used to move an object and generates a list of the modes | Artifact presents a list of modes of transportation that may be used to move an object |
| **Occupation of Workers** | Artifact incorporates the 10 different occupations of workers actively involved in an intermodal port and explains the job the worker performs and summarizes how the workers interact with one another | Artifact explains the a the 5 different occupations involved in an intermodal port and outlines how the workers interact with one another | Artifact lists the various occupations of workers in an intermodal port and gives an example of the workers job |
| **References** | Team references sources in the proper format in the artifact and produces a word processed annotative bibliography  | Team references sources in the proper format in the artifact | Team generates a list of hyperlinks at the end of the artifact |

**Conclusion**

It takes a team of highly skilled workers to ensure that you can purchase goods manufactured in another country. Unless you live on a waterway that is used to move goods from one place to another, you may miss the hundreds of ships and barges that enter and leave our ports each day, bringing in or taking out manufactured goods and or resources.

**Tags**

Blue Water Shipping

Brown Water Shipping

Crane

Crane Operator

Container

Deck

Distance

Double Stacking

Engineering

Freight

Harbor Pilot

Intermodal Transportation

Loading Dock Supervisor

Logistics

Longshoreman

Maritime

Materials Handling Worker

Security

Ship

Ship Building

Ship Repair

Steward

Terminal/Port

TEU

Terminal Transport Options

Warehouse Worker

**Appendix A:** Helpful Vocabulary Terms

Blue Water Shipping

Brown Water Shipping

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**Appendix B:** Helpful Resources

SMART Partner: Port of Virginia

<http://www.maritime-technology.org/video-gallery/>

Logistics and Supply Chain Career Field:

<http://www.maritime-technology.org/video-gallery/>

A Day in the life of a Port Pilot

<http://www.maritime-technology.org/video-gallery/>

American Society of Transportation and Logistics

<http://www.ASTL.org>

Megastructures: Port of Singapore (5 videos; each about 45 minutes in length)

<http://www.youtube.com/watch?v=B8j19od6efo>

<http://www.youtube.com/watch?v=hkg7Z4y6Igo>

<http://www.youtube.com/watch?v=QK8QeDVoi84>

<http://www.youtube.com/watch?v=qwwljBBPt6I>

<http://www.youtube.com/watch?v=0iREqElfw_w>

United States Merchant Marine Academy

<http://www.usmma.edu/>

Seafarers International Union:

<http://www.seafarers.org/jobs/ua.html>

United States Coast Guard:

<http://www.uscg.mil/nmc/credentials/default.asp>

Wisegeek:

<http://www.wisegeek.com/how-do-i-become-a-longshoreman.htm#didyouknowout>

http://www.wisegeek.com/what-does-a-merchant-seaman-do.htm#

Port Operations:

<http://www.youtube.com/watch?v=2PjgZzmug8U>

Unites States Customs and Border Patrol:

<http://www.youtube.com/watch?v=RQjobBwvcUU>