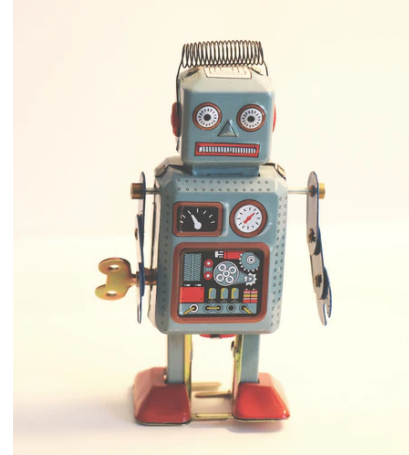


Unit 3: Robotics

Syllabus

OVERVIEW & PURPOSE

This lesson seeks to demonstrate that robotics are now also an integral part of logistics. In this lesson, students will learn some of the basics of robotics and a brief history of the development of robots. Then, they will learn about the many ways that robots are used today. Finally, students will study the role of robots in logistics today and how you can prepare for a career in logistics by studying robotics.



COURSE LEARNING OBJECTIVES

1. Understand the basic concepts of robotics and some of the basic components of robots.
2. Understand the increasing importance of robotics in the modern economy by looking at the many industries that are now employing robots.
3. Become aware of the use of robotics in logistics and how to prepare for a career in robotics and in logistics.

MATERIALS NEEDED

- Computer
- Internet Access
- Text Book



DESCRIPTION OF ACTIVITIES

For each module please expect the following activities:

- Read through the lesson/session contents (including articles) and watch videos
- Stimulating Discussion
- Take a short quiz on the material presented
- Complete a written assignment with open-ended responses
- Making an Informed Decision About Automated Sorters Project
- Group Project Presentation

Unit 3: Robotics

FOUR WEEK LESSON OUTLINE

Week 1: Theory & Stimulating Discussion

- 3.1 What is Robotics?
- 3.2 The History of Robotics
- 3.3 The Numerous Uses of Robots Today
- 3.4 Robotics in Logistics
- 3.5 How to Prepare for a Career in Robotic Logistics

Week 2: Case Study Research, Data Mining & Research Essay

- Research and investigate questions 1 & 2
- Write Research essay
- Case Study 1: Find three robots that you find interesting
- Case Study 2: How robots could affect employability for humans

Week 3: Collaborative Project Idea, Creation & Development and Problem Solving

- Project 1: Making an Informed Decision About Automated Sorters

Week 4: Project Presentations

- Group presentations before classmates