



### **Course Description**

#### **MAN3554 | Safety and Risk Management | 1.00 credit**

This course will focus on safety and risk management with emphasis on how it applies to supply chain management. Students will learn the processes used to characterize and manage risk, as well as maintain a safe operating environment with the protection of personnel, assets, and services. Hazard characteristics of products, appropriate modes of transport, carrier selection and qualifications, packaging and container specifications, driver training requirements, financial issues, security precautions, warehousing risk, OSHA, hazardous materials handling, and customer assessment will be addressed in this course.

### **Course Competencies:**

**Competency 1:** The student will demonstrate an understanding of fundamental workplace health and safety standards by:

1. Evaluating and documenting avoidance and the prevention of safety hazards on various sites
2. Interpreting and summarizing basic accident investigation procedures and describing accident analysis techniques
3. Generating sample emergency plans, training workers on the plans, providing personal protective equipment, and engaging in organized response operations within the chain of command and communication systems
4. Analyzing and identifying the standards of Hazardous Waste Operations and Emergency Response Standards (HAZWOPER)

**Competency 2:** The student will demonstrate an understanding of the local and federal law (Occupational Health and Safety Act -OSHA) governing workplace health and safety by:

1. Analyzing why OSHA is essential to worker safety
2. Interpreting worker rights under OSHA
3. Evaluating employer responsibilities under OSHA
4. Applying the use of OSHA standards
5. Determining how and why OSHA inspections are conducted

**Competency 3:** The student will demonstrate the use and interpretation of industry-standard reports and data to report on and analyze trends in risk management by:

1. Examining the steps required for posting records, maintaining records of illnesses and injuries, and reporting specific cases to OSHA
2. Creating and compiling sample OSHA forms 300, 300A, and 301
3. Interpreting a Materials Safety Data Sheet (MSDS) and explaining its purpose
4. Reviewing industry trends and developing sample processes for possible prevention

**Competency 4:** The student will demonstrate an understanding of business risk and how to mitigate risk within the supply chain by:

1. Conducting a business risk assessment analysis through a case study
2. Developing a process through group work, on how to mitigate potential risks
3. Analyzing the potential financial effects of risks throughout the supply chain
4. Comparing and contrasting various types of risk and exposure
5. Creating a sample process on the disposal and final disposition activities throughout the system or element life cycle
6. Assessing the risks caused by information technology service failures, security breaches, and natural disasters

### **Learning Outcomes:**

- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information