Sinclair Community College
444 E. Third St.
Dayton, OH 45402

Master Syllabus

MAN 1157 - Management Applications of Radio Frequency Identification Technology

Division: Business and Public Services

Department: Management

Credit Hour Total: 2.0 **Lecture Hrs:** 2.0

Prerequisite(s): MAN 1106

Date Revised: September 2013

Course Description:

This course will introduce students to the management applications of Radio Frequency Identification (RFID) technology, which enables automated gathering and sending of asset information. Case studies and hands-on activities will allow students the opportunity to experience RFID from a business perspective, linking cost, price, customer satisfaction and product performance measures to business application outcomes.

General Education Outcomes:

- Oral Communication
- Critical Thinking/Problem Solving
- Values/Citizenship/Community
- Information Literacy
- Written Communication
- Computer Literacy

Course Outcomes:

Radio Frequency Identification (RFID) Technology
Apply RFID technology to a variety of applications, including supply chain, health care and government.

Assessment Method: Locally developed exams
Performance Criteria: Achieve a minimum grade of 70% or higher

Assessment Method: Simulations
Performance Criteria: Achieve a minimum grade of 70% or higher based on departmental rubrics

Cost Structure of Radio Frequency Identification (RFID)
Determine the Return on Investment (ROI) of RFID applications and provide rationale to build a business case for application and use.

Assessment Method: Locally developed exams
Performance Criteria: Achieve a minimum grade of 70% or higher

Assessment Method: Simulations
Performance Criteria: Achieve a minimum grade of 70% or higher based on departmental rubrics

Radio Frequency Identification (RFID) Implementation
Determine the appropriate vendor sourcing and selection criteria and apply this reasoning in case study analysis.

Assessment Method: Locally developed exams
Performance Criteria: Achieve a minimum grade of 70% or higher

Assessment Method: Simulations
Performance Criteria: Achieve a minimum grade of 70% or higher based on departmental rubrics

Outline:

Radio Frequency Identification (RFID) and the Supply Chain
Return on Investment for RFID application
RFID Vendor Selection
Security
Ethical/Privacy Issues
RFID Regulations and EPC Global Standards
RFID Applications