# ATLT-2110: INTRODUCTION TO PROJECT PLANNING AND PROCESSING FOR LIFTING TECHNOLOGIES

## Cuyahoga Community College

**Viewing: ATLT-2110 : Introduction to Project Planning and Processing for Lifting Technologies**

**Board of Trustees:**
2017-06-29

**Academic Term:**
Spring 2019

**Subject Code**
ATLT - AIT-Lifting Technologies

**Course Number:**
2110

**Title:**
Introduction to Project Planning and Processing for Lifting Technologies

**Catalog Description:**
Introduction to project planning and processing for lifting technology projects including introduction to the basics of the project planning and processing from project approval to closing.

**Credit Hour(s):**
2

**Lecture Hour(s):**
2

## Requisites

**Prerequisite and Corequisite**
Departmental approval: admission to Lifting Technologies apprenticeship program.

## Outcomes

**Course Outcome(s):**
Discuss "What is a Project?" in terms of lifting technologies.

**Essential Learning Outcome Mapping:**
Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

**Objective(s):**
1. List and define the characteristics of a project and planning process
2. List and define terms related to a project and planning process

**Course Outcome(s):**
Discuss project planning and processing including characteristics, process and benefits.

**Essential Learning Outcome Mapping:**
Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

**Objective(s):**
1. List and define the characteristics of a problem and a solution
2. Identify and define the five phase of the project planning and processing
3. Assess the benefits of project management

**Course Outcome(s):**

Demonstrate the ability to create a typical project relating to lifting technology in a cross functional team for presentation.

**Essential Learning Outcome Mapping:**

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

**Objective(s):**

1. Submit project proposal to the Mazzella leadership team as a proposal for evaluation and approval
2. Select a typical project related to the lifting technology industry
3. Process a typical project related to the lifting technology industry relative to engineering or operations
4. Collaborate in cross-functional teams of two or three to develop team building skills
5. Present and explain project plan and proposal including

**Methods of Evaluation:**

1. Tests
2. Quizzes
3. Class participation

**Course Content Outline:**

1. Project
   a. Characteristics
      i. A unique endeavor
      ii. A specific goal
      iii. Clear-cut start and finish dates
      iv. Within a budget
      v. Project constraints
   b. Terms
      i. Project Approval
      ii. Work Breakdown Structure
      iii. Resource
      iv. Schedule
      v. Budget
      vi. Scope
      vii. Quality
      viii. Cost
2. Project Planning
   a. Characteristics
      i. Definition
      ii. Objective
      iii. Solution
      iv. Measurements
   b. Process Phases
      i. Initiating
      ii. Planning
      iii. Executing
      iv. Controlling
      v. Closing
   c. Benefits
      i. Faster and better return on investment
      ii. Decreased time to market
      iii. Increased customer satisfaction
         1. On-time delivery
         2. Quality
         3. Cost control
      iv. Increased productivity
      v. Risk Management
3. Creating a Project: Development and Presentation

    a. Types
       i. Engineering
          1. Process
          2. Customer
      ii. Operation
          1. Safety
             a. Operational
             b. Product
             c. Worker
          2. Process
          3. Ergonomic
          4. Waste reduction
    b. Project Processing
       i. Engineering
          1. Customer
          2. Crane
          3. Below the Hook
          4. Process improvement
      ii. Operation Improvement
          1. process improvement
          2. Ergonomic
          3. Waste reduction
    c. Project Development
       i. Collaboration
          1. Leadership
          2. Team building
          3. Shared goals
          4. Cooperation
      ii. Skills
          1. Planning
          2. Organizing
          3. Measuring
          4. Communicating
    d. Project Presentation
       i. Initiating
      ii. Planning
      iii. Executing
      iv. Controlling
       v. Closing
    e. Submittal
       i. Leadership team
      ii. Mazzella Companies
      iii. Evaluation
      iv. Approval

## Resources

Biafore. *Successful Project Management.* 1st. O'Reilly Media, Inc. Sebastopol, CA, 2011.

---

Tres Roeder. *A Sixth Sense for Project Management.* first. Author House; Bloomington, IN, 2011.

---

## Resources Other

http://www.mazzellalifting.com/
http://www.pmi.org/

Top of page
Key: 476