

CONM 240 Construction Planning and Scheduling w/Primavera

Outline of Instruction

Course Information

Organization	Monroe County Community College, Applied Science and Engineering Technology
Developers	A. Babycz
Development Date	9/21/2008
Course Number	CONM 240
Instructional Level	Credit
Potential Hours of Instruction	45
Total Credits	3

Description

A comprehensive course which introduces proper project planning, scope and schedule development. Topics include: activity durations and the methods of determining them, PERT, precedence, and linear scheduling, resource allocation development of a work breakdown structure, resource loading, cost loading and resource leveling. The students will identify required activities, resources and cost required to monitor a project throughout the construction process. Students will be required to complete both manual and computerized scheduling assignments. Students will use "Primavera" scheduling software to complete assigned projects

Major Units

1. History of Scheduling
2. Planning/ Activities
3. Precedence Relationships
4. Logic Networks
5. PERT, Gantt Charts
6. Resources
7. Reports
9. Software Applications

Types of Instruction

Instruction Type	Contact Hours	Credits
Classroom Presentation	45	3

Textbooks

Paul E. Harris. *Project Planning & Control Using Primavera P6*. Eastwood Harris. **Edition:** February 2008. **Pages:** 360. **ISBN:** 978-1-921059-20-6. **Source:** www.eastwoodharrisbooks.com.

Prerequisites

CONM 101

CONM 110

Instructor Approval

Exit Learning Outcomes

Core Abilities

- A. Describe the fundamentals of construction Planning and Control
- B. Develop accurate activity durations
- C. Determine crew productivity rates
- D. Develop activity precedence relationships
- E. Construct network diagrams
- F. Perform network calculations
- G. Apply calendars and constraints to a schedule
- H. Organize activity data
- I. Assign resources and costs to project activities
- J. Define target schedule
- K. Generate reports
- L. Integrate with other common software programs

Program Outcomes

- A. Interpret construction documents to accurately predict project costs and assign resources
- B. Utilize construction operations planning methods to create accurate project schedules
- C. Operate industry-standard software for project scheduling

Course Outcomes

- 1. **Describe the fundamentals of construction Planning and Control**
- 2. **Develop accurate activity durations**
- 3. **Determine crew productivity rates**
- 4. **Develop activity precedence relationships**
- 5. **Construct network diagrams**
- 6. **Perform network calculations**
- 7. **Apply calendars and constraints to a schedule**
- 8. **Assign resources and costs to project activities**
- 9. **Generate reports**
- 10. **Integrate with other common software programs**