



SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

COURSE OUTLINE

COURSE TITLE: CODES AND CONSTRUCTION PRACTICES
CODE NO.: CON 208
SEMESTER: III
PROGRAM: CONSTRUCTION TECHNICIAN

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DATE: AUGUST 1997

PREVIOUS OUTLINE DATED:

APPROVED:

DEAN

K. Debasaris

DATE *Aug. 26/97*

J.L. Aug 22/97

TOTAL CREDIT HOURS: 3

PREREQUISITES: NONE

I. PHILOSOPHY/GOALS:

The intent of this course is to provide the student with knowledge and understanding of the collection, application and communication of information relative to construction projects, performance of work according to contract documents, standards and codes, and the management and administration of construction projects including human resources.

II. STUDENT PERFORMANCE OBJECTIVES (OUTCOMES):

Upon successful completion of this course the student will demonstrate the ability to:

- 1) Collect, interpret and communicate construction project information.
- 2) Perform work according to applicable laws, standards, bylaws and codes.
- 3) Interpret and prepare time, cost, and quality reports.
- 4) Evaluate methods employed in construction projects.
- 5) Recognize the interdependence of various disciplines in construction projects.
- 6) Identify issues related to human resource management of construction projects.

III. TOPICS TO BE COVERED:

- 1) Contract Documents
- 2) Laws, Codes and Standards
- 3) Time and Resource Planning
- 4) Construction Project Reporting and Communication
- 5) Relationship and Roles of Disciplines in Construction Projects
- 6) Human Resource Management in Construction

IV. LEARNING ACTIVITIES / REQUIRED RESOURCES

1. Contract Documents

Learning Activities: In class instruction, practical exercises and assignments:

- Identify Contract Documents
- Use Standard Contract Documents
- Interpret Contract Documents

Resources: handouts and overheads

2. Laws, Codes and Standards

Learning Activities: In class instruction, practical exercises and assignments:

- Perform a Part 9 Building Code Check for a Construction Project
- Understand the Influence of Health and Safety Regulations
- Interpret Municipal Bylaws for a Construction Project
- Demonstrate Knowledge of Labour Laws
- Discuss Aspects of Maintaining Quality
- Report in Written Form on Project Quality

Resources: case studies, handouts, overheads, guest speaker subject to availability

3. Time and Resource Planning

Learning Activities: In class instruction, practical exercises and computer based assignments:

- Recognize Terms and Definitions Related to Time and Resource Planning
- Prepare a Work Breakdown Structure (WBS)
- Prepare a Gantt Bar Chart Using Project Planning Software (Tutorial)
- Discuss Allocation of Human Resources for a Construction Project

Resources: case studies, handouts, overheads, computer lab

4. Construction Project Reporting and Communication

Learning Activities: In class instruction, practical exercises and assignments:

Discuss the Importance of Communication
Use Appropriate Means of Communication
Review Methods for Conducting a Construction Project Site Meeting
Describe Methods for Maintaining Project Records and Producing Documentation

Resources: case studies, handouts, overheads

5. Relationship and Roles of Disciplines in Construction Projects

Learning Activities: In class instruction, practical exercises and assignments:

Discuss Roles of Various Disciplines in a Construction Project
Recognize Principles and Practices of Various Disciplines
Identify the Appropriate Specialist for Problem Resolution

Resources: case studies, handouts, overheads

6. Human Resource Management in Construction

Learning Activities: In class instruction, exercises and assignments:

Discuss Employee-Employer Obligations and Liabilities
Describe the Performance of Work in Context of Collective Agreements
Review Organizational and Time Management Strategies
Contribute to a Construction Project as a Member of a Team

V. EVALUATION METHODS:

A final grade will be derived based on tests, assignments and attendance and participation as follows:

Attendance and Participation	10%
Assignments and Quizzes	30%
Midterm Test	25%
<u>Final Test</u>	<u>35%</u>
Total	100%

The standard Sault College grading system used will be as follows:

A+	90-100%
A	80-89%
B	70-79%
C	55-69%
R	Repeat

1. Late assignments will not receive a grade higher than 'C' (62). Assignments submitted after marked assignments have been returned, will not be accepted.
2. Minimum acceptable grade for this course is 55%.

VI. STUDENT RESOURCES

Required Text:

None required.

VII. SPECIAL NOTES

Students with special needs (i.e., physical limitations, visual impairments, hearing impairments, or learning disabilities), are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as deemed necessary to meet the needs of students.