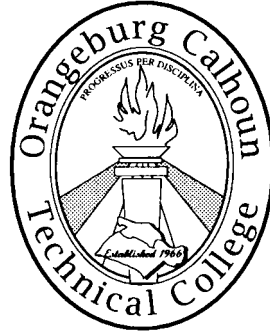


COMPUTER TECHNOLOGY
Electives in Introduction to Civil Engineering
COMPETENCY PROFILE



ORANGEBURG-

COLLEGE

CALHOUN TECHNICAL

3250 ST. MATTHEWS ROAD, NE

ORANGEBURG, SOUTH CAROLINA 29118

(803) 536-0311

www.octech.edu

9-15-05

Electives in Introduction to Civil Engineering
COMPETENCY PROFILE

A. PERFORM MATHEMATICAL CALCULATIONS	A-1 LEARN CALCULATOR FUNCTIONS	A-2 STUDY STATIC FORCES	A-3 STUDY EFFECTS OF STATIC FORCE ON STRUCTURE AND MATERIALS	A-4 LEARN BASIC RIGHT-ANGLE TRIGONOMETRY	A-5 LEARN UNITS CONVERSION
B. LEARN FUNDAMENTALS OF SURVEYING	B-1 STUDY THEORY & PRACTICE OF SURVEYING	B-2 LEARN CARE & USE OF SURVEYING INSTRUMENTS	B-3 LEARN TRAVERSING PROCEDURE	B-4 LEARN TO COMPUTATE CLOSURE	B-5 LEARN <i>COGO</i> INPUT
	B-6 LEARN BASIC KNOWLEDGE OF GPS & COORDINATE SYSTEMS	B-7 DEVELOP AND PRESENT A COMPLETE SURVEYING PROJECT			
C. LEARN GENERAL CONCEPTS OF CONTRACT LAW & COST ESTIMATION	C-1 STUDY BASIC ENGINEERING LAW AND CONTRACT LAW	C-2 UNDERSTAND RELATIONSHIP/RESPONSIBILITIES BETWEEN OWNER & CONTRACTORS	C-3 UNDERSTAND CONTRACT BIDDING & SPECIFICATION INTERPRETATION	C-4 STUDY PROJECT COST ESTIMATION	C-5 UNDERSTAND THE IMPORTANCE OF PROJECT SCHEDULING
	C-6 LEARN COST ESTIMATION SOFTWARE	C-7 COMPLETE COST ESTIMATION PROJECT			
D. MAINTAIN RECORDS	D-1 ORGANIZE WORK AND WORK STATION	D-2 SET UP AND ORGANIZE RECORD FILES	D-3 DEMONSTRATE FAMILIARITY WITH BASIC REVISION PROCEDURES/FORMATS	D-4 REVISE EXISTING DRAWINGS	D-5 DOCUMENT PROJECT ACTIVITY AND SCHEDULING
	D-6 DOCUMENT RESOURCES				

E. DEMONSTRATE PROFESSIONAL BEHAVIOR	E-1 ARRIVE ON TIME	E-2 ADHERE TO COMPANY POLICIES & PROCEDURES	E-3 DEMONSTRATE PRODUCTIVITY (Manage Time, Set Priorities)	E-4 COOPERATE WITH OTHERS (Play well together)	E-5 BE A TEAM PLAYER
	E-6 DEMONSTRATE APPROPRIATE INTERPERSONAL SKILLS	E-7 PROMOTE GOOD CORPORATE IMAGE	E-8 DRESS APPROPRIATELY	E-9 DEVELOP JOB INTERVIEW SKILLS	E-10 DEVELOP AN AWARENESS OF COST EFFECTIVENESS
	E-11 DEVELOP TIME MANAGEMENT SKILLS	E-12 USE STRESS MANAGEMENT	E-13 DEMONSTRATE SELF-RESPONSIBILITY	E-14 DEMONSTRATE LOYALTY TO ORGANIZATION	E-15 PARTICIPATE IN CONTINUING EDUCATION PROGRAMS TO UPGRADE PROFESSIONAL COMPETENCE
	E-16 FOLLOW SAFETY PROCEDURES AS APPLICABLE	E-17 BE ADAPTABLE	E-18 TAKE INITIATIVE	E-19 BE RECEPTIVE TO INSTRUCTIONS FROM ANYONE	

THIS DACUM WAS CONDUCTED ON SEPTEMBER 14 & 15, 2005, AT ORANGEBURG-CALHOUN TECHNICAL COLLEGE

FACILITATOR: JENNIE REDMOND

FOR MORE INFORMATION CONTACT

RECORDER: CONNIE HOFFMAN

RON WILSON, PROGRAM DIRECTOR/COORDINATOR (803) 535-1296

DACUM PANEL

Lee Abbott
Cade Woods
Louise Sparks
Eric Ham

Nucor Building Systems, Swansea, SC
Department of Public Utilities, Orangeburg, SC
Augusta Fiberglass, Blackville, SC
Orangeburg-Calhoun Technical College, Orangeburg, SC