



Instructor's Day to Day Course Schedule

CORE Plus: CORE Plus is designed to meet all requirements of NCCER's Core curriculum while providing students with OSHA 10 awareness and an overview of the careers in the advanced manufacturing sector. As a result of the CORE Plus course, students will be able to describe their personal career choice based on current employment and labor statistics. *Please note: NCCER Core is a proprietary curriculum. The highlighted activities were developed with TAACCT funds and may be replicated.*

Week 1	Module/Agenda	Learning Activities & Topics	Assignments	Practical Activities*
MON 7/13	CORE Plus Orientation (30 min.) OSHA-10 Training (3.5 hours)	Complete OSHA Registration/Release Forms		
TUE 7/14	OSHA-10 Training (4 hours)			
WED 7/15	OSHA-10 Training (3 hours) OSHA-10 Certification Test (1 hour)			
THU 7/16	Module 1: Basic Safety 4/e (3 hours) M1 Trade Terms Quiz (1 hour)	-Review syllabus; student/ instructor expectations. -Sign Safety Training Acknowledgement Form for DCC-TD; Complete NCCER Registration/Release Forms <hr/> Learning Topics: Introduction to Safety & Accidents, Working from Elevations, Job-Site Hazards, and Safety Precautions	Homework: Module 1 Review Questions Due: Mon. 7/20	M1 Materials and Supplies: Ladder and a variety of PPE -Practice setting up and using ladders. -Set up an extension ladder and demonstrate three-point contact on a ladder -Practice inspecting and donning PPE -Demonstrate safe lifting techniques

WEEK 2	Module/Agenda	Learning Activities & Topics	Assignments	Practical Activities
MON 7/20	M1 Review Questions (1.5 hours) Module 1 Test (1 hour) Module 7: Basic Communication (1.5 hours) <i>Team Teach Module</i>		Homework: M7 Review Questions Due: Tue. 7/21	M7 Materials and Supplies: Safety harness and sample work related forms -Practice following verbal instructions for donning a safety harness -Practice accurately completing work-related forms
TUE 7/21	Module 7: Basic Communication cont'd. (2.5 hours) M7 Trade Term Quiz (30 min.) M7 Review Questions (1 hour)	M7 Learning Topics: The Communication Process, Active Listening on the Job, Reading & Writing on the Job <hr/> M8 Learning Topics: The Construction Business; Critical Thinking, Computer & Relationship Skills; Workplace Issues		
WED 7/22	Module 7 Test (1 hour) Job Identification Activity (15 min.) Career Report Activity (2 hours 45 min.)	Job Identification Activity Directions: Ask students to take out a blank sheet of paper. Tell them that they will be given 60 seconds to list as many different occupations as possible. Following the exercise, ask students how many careers they were able to list. Ask students with the longer lists to read the career they identified. <i>The goal is to get students to realize that without career exploration and investigation, they miss out on finding the best career for them.</i> Career Report Activity Directions: "With your career choice in mind, go to www.onetonline.org/skills/ and complete the Skills Search. Click Go when done. You should receive 5 career matches based on the skills you selected. If your career choice is one of your career match results, use it and two other matches to complete the information below. If your career choice is not one of your career		

		<p>matches, use two of them and research your career choice. You should have three (3) Career Focus sheets when done." Use this site and http://www.bls.gov/ooh/ to complete your Career Reports.</p> <p>-Individual presentations if completed early</p>		
THU 7/23	<p>Advanced Manufacturing Career Exploration:</p> <p>Career #1-Instrumentation (1 hour)</p> <p>Career #2-Industrial Maintenance (1 hour)</p> <p>Career #3-Process Control & Instrumentation (1 hour)</p>	<p>Learning Topics: Work typically performed by instrumentation, industrial maintenance, and process technicians, hand tools, power tools and equipment specific to these trades, and a review of the curriculum.</p> <p>-See attached Advanced Manufacturing Career Exploration Research Project directions</p>	<p>Group Research Project: Prepare a presentation on your assigned program area; include the skills required for this career, salary and potential employers in and out of state.</p> <p>Presentation Date: Thu. 7/30</p>	-Instrumentation, Industrial Maintenance and Process Control & Instrumentation
WEEK 3	Module/Agenda	Learning Activities & Topics	Assignments	Practical Activities
MON 7/27	<p>Advanced Manufacturing Career Exploration Cont'd.: Class will meet at the <u>DCC Jefferson Campus in Building A, Room 26 this week.</u></p> <p>Overview of Precision Machining and Electrical (30 mins.)</p> <p>Precision Machining Project (1.5 hours)</p> <p>Electrical Project (1.5 hours)</p> <p>Wrap-Up (30 mins.)</p>	<p>-Tour of Advanced Manufacturing Center of Excellence</p> <p>C4 Learning Topics: Precision Machining Overview-includes work typically performed by a machinist,</p> <p>Learning Topics: Work typically performed by machinists and electricians, hand tools, power tools and equipment specific to these trades, and a review of the curriculum.</p>		
TUE 7/28	<p>Overview of Welding and Pipefitting (30 mins.)</p> <p>Welding Project (1.5 hours)</p> <p>Pipefitting Project (1.5 hours)</p>	<p>Learning Topics: Work typically performed by welders and pipefitters, hand tools, power tools and equipment specific to these trades, and a review of the curriculum.</p>		

	Wrap-Up (30 mins.)			
WED 7/29	Advance Manufacturing Career Exploration Research Project Presentations (2 hours)	Class time to work on group project		
THU 7/30	Module 3: Introduction to Hand Tools (3 hours) M3 Trade Terms Quiz (1 hour)	Learning Topics: Identify, inspect and properly use hand tools; learn basic care of hand tools	Homework: Module 3 and Module 4 Review Questions Due: Thu. 8/4	M3 Materials and Supplies: Hammer, screwdriver, crosscut saw, adjustable wrench, Channel lock pliers, wood, measuring tools and power drills -Inspect and use a hammer and screwdriver -Practice using Channel lock pliers and adjustable wrenches -Practice using measuring tools -Practice using power drills
WEEK 4	Module/Agenda	Learning Activities & Topics	Assignments	Practical Activities
MON 8/3	Module 4: Introduction to Power Tools (3.5 hours) M4 Trade Terms Quiz (30 min.)			M4 Materials and Supplies: Circular saw, SawZall, reciprocating saw, electric drill, pneumatic power nailer, and wood. -Practice using circular saws, reciprocating saws, and power nailers
TUE 8/4	M3 & M4 Review Questions (1 hour) Modules 3 & 4 Tests (2 hours) Module 6: Introduction to Basic Rigging (1 hour)	M6 Learning Topics: Slings and Hitches,	Homework: Module 6 Review Questions Due: Mon. 8/5	
WED 8/5	Module 6: Introduction to Basic Rigging cont'd. (2.5 hours) Trade Terms Quiz (45 min.) Review Questions (30 min.)	Learning Topics: Rigging Hardware, Sling Stress and Hoists, Rigging Operations & Practices -Watch video on rigging		

THU 8/6	Module 6 Test (1 hour) Module 9: Introduction to Materials Handling (1.5 hours) M9 Trade Terms Quiz (30 min.)	M7 Learning Topics: Materials-Handling Basics, Safety, Equipment, & Hand Signals	Homework: Module 9 Review Questions Due: 8/10	M9 Materials and Supplies: Material cart, hand truck, wheelbarrow, pallet jack; boxes, wood, pipes, etc. (material to move) -Practice proper materials-handling techniques
WEEK 5	Module/Agenda	Learning Activities & Topics	Assignments	Practical Activities
MON 8/10	Review Questions (30 min.) Module 9 Test (1 hour) Module 2: Introduction to Construction Math (2.5 hours) <i>Team Teach Module</i>	M2 Learning Topics: Whole Numbers & Measurements and Fractions & Decimals	Homework: Module 2 Review Questions Due: 8/12	M2 Materials and Supplies: Ruler, architect's scale, tape measure -Practice taking measurements using scales
TUE 8/11	Module 2: Introduction to Construction Math cont'd. (4 hours)	M2 Learning Topics: Whole Numbers & Measurements and Fractions & Decimals, continued and Conversion & Geometry		
WED 8/12	M2 Trade Terms Quiz (1 hour) Review Questions (1 hour) Module 2 Test (1.5 hours)			
THU 8/13	Module 5: Introduction to Construction Drawings (4 hours)	M5 Learning Topics: The Drawing Set and Types of Construction Drawings	Homework: Module 5 Review Questions Due: 8/17	M5 Materials and Supplies: A complete set of plans and construction drawings -Locate the wall common to both interview rooms -Determine overall width of the structure studio -Find the distance from the outside east wall to the center of the beam in the structure studio -Find the elevation of the slab
WEEK 6	Module/Agenda	Learning Activities & Topics	Assignments	Practical Activities
MON 8/17	Module 5: Introduction to Construction Drawings (2.5 hours)	M5 Learning Topics: The Drawing Set and Types of Construction Drawings, continued		

	M5 Trade Terms Quiz (1 hour) Review Questions (30 min.)			
TUE 8/18	Module 5 Test (1 hour) Module 8: Basic Employability Skills (3 hours)	M8 Learning Topics: Employability Skills: Construction Business and Critical Thinking Skills -Pass out email addresses to students. Have them email each other and then print the email	Homework: Module 8 Review Questions Due: Thu. 8/20	No materials needed for M8 -Demonstrate the ability to access, retrieve, and print from email and the internet.
WED 8/19	Module 8: Basic Employability Skills (2 hours) M8 Trade Term Quiz (1 hour)	M8 Learning Topics: Computer Skills, Relationship Skills, Interview Skills and Workplace Issues		
THU 8/20	Review Questions (1 hour) Module 8 Test (1 hour) Mock Interviews (2 hours)	Students will participate in mock interviews		-Mock Interviews
WEEK 7	Module/Agenda	Learning Activities & Topics	Assignments	Practical Activities
MON 8/24	Evaluation and Make Up Day			
TUE 8/25	Networking Reception			

*Because Practical Activities often correspond to Performance Tasks, the proficiency of the trainees may be noted during these exercises for Performance Testing purposes.