

SYLLABUS

DIVISION: Workforce Services

Revised: January 2015

CURRICULA IN WHICH COURSE IS TAUGHT: Non-Curricula

COURSE NUMBER AND TITLE: IND 195-NCCER Instructor Certification (1 Crs)

CREDITS: 1

HOURS/WEEK LECTURE: 1

HOURS/WEEK LAB: 0

LECTURE/LAB COMBINATION: 1 (1)

I. CATALOG DESCRIPTION:

This course will focus on developing skills and knowledge in orientation and leadership; basic safety; math, measuring tools, and instruments; blueprints; hand and power tools; lathe theory and operation; milling machine theory and operation; and grinding operations. **Safety is emphasized in each unit and every activity.**

II. RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES IN WHICH IT IS TAUGHT:

Non-Curricula Course

III. REQUIRED BACKGROUND:

None

IV. COURSE OUTLINE:

- Orientation, Leadership, and Basic Safety
- Manufacturing Fundamentals
 - Math
 - Measuring Tools
 - Instruments
 - Blueprints
 - Hand and Power Tools
- Power Machinery
 - Lathe Theory and Operation
 - Milling Machine Theory and Operation
 - Grinding Operations
 - Computerized Numerical Control
- Gas Welding / Cutting Processes
 - Basic Oxy-Fuel Cutting and Plasma Arc Cutting (PAC)
 - Gas Metal Arc Welding (GMAW) and Flux Core Arc Welding (FCAW)
 - Gas Tungsten Arc Welding

IV. LEARNER OUTCOMES

VI. EVALUATION

<p>Students will have an understanding of the orientation and leadership in the following areas: Basic Safety Math Measuring tools and instruments</p>	<p>Student must show passing grade on combination of attendance, participation, homework, and test.</p>
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Blueprints Hand and power tools Lathe theory and operation Milling machine theory and operation Grinding operations	
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The course supports the following objectives:

- A. DCC Educational Objectives
 - 1. Communication
 - 2. Critical Thinking
 - 3. Computational and Computer Skills
 - 4. Understanding Culture and Society