Adult Education Class Outline
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4.5607 Manufacturing Systems and Processes

Date Posted: 11/27/2000
Title: Electronics Technician: Computer Technician
Submitted by: Sacramento City Unifed School District

UPDATED: August 1997

I. COURSE TITLE: Electronics Technician: Computer Repair

Total Hours: 900

COURSE DESCRIPTION:

This Electronics Technician: Computer Repair course provides "hands-on" instruction in DOS commands, computer configuration, diagnosis and repair, software installation, virus checking and monitor, keyboard and printer repair. The student will apply the skills to the computer cleaning, refurbishing and upgrading PC computers and peripherals which will be donated to California schools.

II. MAJOR GOALS AND PURPOSES OF THE COURSE:

The course is designed to prepare the student with entry -level skills for employment in the electronic and computer servicing industry.

III. PERFORMANCE OBJECTIVES:

Upon successful completion of the course, the student will be able to:

A. Understand the production in Electronic Manufacturing and the Language of Electronic
B. Understand the basic AC/DC electronic Theory as applied to the computer
C. Apply basic Math skills in OHM's Law and production testing.
D. Work safely in an Electronic laboratory setting.
E. Apply basic electronic laboratory theory and practices in assembly, testing and repair.
F. Follow written and verbal instruction
G. Understand packing, shipping, storing and inventory of computer equipment

IV. INSTRUCTIONAL STRATEGIES:

The lecture method, including the overhead projector, videos and demonstration will be used in instruction. Demonstrations will be used in the "hands-on" activities in showing ht testing, installation, troubleshooting and repair of computer systems. Speakers from the industry will make presentations on job market needs. Wherever and whenever possible. Field trips to trade shows and industry will be utilized.

V. TIMES OF INSTRUCTION:

Units of Instruction	Approximate Hours
• Safety , tools and technology	50
• Computer hardware	360

● Math for electronics -basic AC/DC	120
● Solid state devices and circuits	90
● Digital devices and circuits	90
● Computer software/DOS	110
● Career development	20
● Work place skills	60
● Solid state devices and circuits	90
● Digital devices and circuits	90
TOTAL:	**900**

VI. EVALUATION:

Upon completion of each unit of instruction, student must pass a written assessment examination with a minimum of 80% accuracy. Skills will be evaluated according to the standards set forth in the student performance based objectives of the course.

VII. REPETITION:

Students unable to meet the evaluation criteria as stated above may petition to repeat the course or units of the course upon approval of the instructor, counselor and administration.