BIRT 1125: Brasswind Repair I

A. COURSE DESCRIPTION

Credits: 5

Lecture Hours/Week: 2

Lab Hours/Week: 6

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course parallels topics and tasks learned in BIRT1110, adding solder projects, complete instrument repair, introduction to trombone handslide repairs and trumpet playing methods. Machine tool operation, aspects of a safe work environment as well as instrument inspection, repair and invoicing are also included. Grading is based on project evaluation and written tests. (Prerequisite: BIRT1110 or field experience commensurate with course content as determined by instructor) (5 Credits: 2 lecture/3 lab)

B. COURSE EFFECTIVE DATES: 02/21/2001 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Applying common brass instrument maintenance
2. Applying common brass instrument repairs
3. Parts manufacture
4. Tool manufacture

D. LEARNING OUTCOMES (General)

1. Using the trumpet as focus, the student will learn:
   a. Shop safety
   b. Evaluation of instruments for repair
   c. Loosening/pulling stuck parts
   d. Common mouthpiece repairs
   e. Construction of sub-assemblies such as mouthpipes with receivers and outer tubes
   f. Installation (alignment, jigging and soldering) of sub-assemblies
   g. Polishing, degreasing and spot-finishing techniques
2. By making tools and parts using bench motors, sanders, grinders and metal lathes the student will learn
   a. Lathe set up and basic operation
   b. Machine safety
   c. Application of machine functions to repair processes
3. By completing projects on time, following BIR rules and policies regarding tardiness, absences, quiz/exam make-up, by using tools and facilities appropriately and safely, and by interacting with instructors and peers professionally, the student will learn
   a. Employer expectations related to day-to-day operations
   b. How to succeed on a bench test
   c. How to advance in the work place

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None
F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted