A. COURSE DESCRIPTION

Credits: 4  
Lecture Hours/Week: 4  
Lab Hours/Week: *.*  
OJT Hours/Week: *.*  
Prerequisites: None  
Corequisites: None  
MnTC Goals: None

This course provides learners with knowledge and skills in industrial and specific welding environment safety practices. In addition, instruction is provided in the specifics of the welding industry in terms of the job market, processes and product applications, and technological changes. A study is done of the major national codes that govern the welding industry, specifically the ASME Pressure Vessel Code, the American Welding Society Structural Code D1.1, additional AWS codes, API 1104, B31.3 Process Piping, and others.

B. COURSE EFFECTIVE DATES:  08/25/2008 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Understanding of safe practices in welding.  
2. Application of personal protective equipment (PPE).  
3. Proper selection of PPE.  
4. Understanding of other needed safe procedures.  
5. Identify required or recommended safety.  
6. Demonstrate safety skills and knowledge.  
7. Define a welding code.  
8. Define and understand a quality standard.  
9. Understand welding discontinuities and defects.  
10. Perform weld inspection.  
11. Define welding.

D. LEARNING OUTCOMES (General)

1. The learner will demonstrate effective communication skills.  
2. The learner will demonstrate job-entry level skills.  
3. The learner will demonstrate safety skills and knowledge.  
4. The learner will demonstrate working knowledge of codes.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus
G. SPECIAL INFORMATION

None noted