MOHAWK VALLEY COMMUNITY COLLEGE

UTICA-ROME, NEW YORK

# COURSE OUTLINE

I. CATALOG DESCRIPTION:

MT272 Advanced Electric Arc Welding C-2, P-6, Cr-5

This course continues with instruction of the principles and practices of gas arc (TIG) and gas metallic arc (MIG) welding on ferrous and non-ferrous metals and pipe. Topics include special arc cutting techniques such as air carbon arc, oxygen arc, underwater cutting, plasma cutting, along with theory and safety. Welding supply fee required.

Prerequisite: MT174 Electric Arc Welding Procedures

III.COURSE OBJECTIVES:

This course is designed to provide the student who already acquired proficiency in Electric ARC Welding with the fundamentals of Gas Welding. This will include an understanding of the theory of Gas shielding and knowledge of the different gases that are used for this. Emphasis will be placed on different types of SMAW processes and the DOT overhead will be practice and a exam will be given. Instruction will be provided in the weld ability of metals, welding-related processes and evaluation and quality control.

Student learning outcomes**:**

1. The student will be able to identify the fundamentals of SMAW.
2. The student will be able to identify the weld ability of metals, welding-related processes and evaluation and quality control.

IV.DETAILED COURSE OUTLINE:

### Information and

Week Reading Assignment Task Detail

1 & 2 Readings Welding Skills (pg.345-

362)

Questions for study

Laboratory # 1

Real life experience

3 & 4 Readings Journal AWS Welding

Article 1 and 2

Report DOT

5 & 6 Readings DOT fax handout

7 & 8 Readings AWS article (bridges)

9 & 10 Readings Welding Skill (pg.637-

648) Questions and answer

1. 11-13 Readings Welding EXAM DOT

# **COURSE NAME:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## **DATE FACULTY NAME CHANGE INPUT MEASUREMENT ASSESSMENT ACTION**

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