## MOHAWK VALLEY COMMUNITY COLLEGE

UTICA-ROME, NEW YORK

# COURSE OUTLINE

I.CATALOG DESCRIPTION:

 MT276 Welders Ornamental Iron C-2, P-4, Cr-4

 This course covers the design and fabrication of wrought iron and sculpture. Topics include the theory of blacksmithing and the use of the forge on various metals. Safety is stressed. Welding supply fee required.

III.COURSE OBJECTIVE**:**

 After completing this study guide and classroom instruction, students will define characteristics and uses of tool steels, heat and shape carbon and tool steels by demonstrating skills learned.

Student learning outcomes**:**

1. The student will demonstrate how to define characteristics and uses of tool steels.
2. The student will demonstrate how to define characteristics and the uses of heat and shape carbon.
3. Students will be able to understand the history for Blacksmithing.
4. Students will use 19th Century techniques in blacksmith welding.
5. Students will design and work with heated forges.
6. Students weld ferrous and non ferrous using vintage techniques.

IV.DETAILED OUTLINE:

WEEK READING ADDIGNMENT INFORMATION TASK DETAIL

1-5 Reading assignment Equipment for hand forging.

 Chapters on equipment, Types of processes.

 forging, metal bending.

6-10 Review text; forging Industrial applications.

 and shaping metals.

 Test.

11-14 Review text on metal Make use of a variety of projects. Fabricating techniques.

 Ornamental iron.

1. Review and Final Examination

# **COURSE NAME:\_\_\_\_\_MT276 Welders Ornamental Iron\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |