

## COURSE OUTLINE

Revision: Rodger Squirrell July 14, 2009

DEPARTMENT:	Manufacturing Technology
CURRICULUM:	Welding Fabrication Technology
COURSE TITLE:	Motor Vehicle Welding Fabrication for Automotive
COURSE NUMBER:	WFT 110
TYPE OF COURSE:	Vocational Preparatory
COURSE LENGTH:	6 weeks
CREDIT HOURS:	3
LECTURE HOURS:	10
LAB HOURS:	40
CLASS SIZE:	18
PREREQUISITES:	Enrollment in the Motor Vehicle Maintenance Program or instructor's permission

## COURSE DESCRIPTION:

Introduction to welding fabrication skills involved in maintenance and repair of highway and other motor vehicles. Prior knowledge of hand and basic power tools is helpful. Students will perform a number of pertinent exercises including fabrication of projects. The pace of the course is tailored to the skills of each student. More advanced projects are encouraged for the students so inclined and demonstrably capable.

WFT 110 Motor Vehicle Welding Fabrication for Automotive  
January 20, 2003

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Communication - Use clear communication to evaluate and plan for maintenance and repair
2. Human Relations - Use interactive skills to work in teams
3. Technology - Select the correct tools to implement repair
4. Personal Responsibility - Take responsibility for one's own development of skills, observe safety rules, and produce workmanship samples.

GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Recognize situations where fabrication skills are either warranted or not warranted
2. Identify welding, cutting and other fabrication equipment of the type used by the motor vehicle industry
3. Describe safe use of welding, cutting, and other fabrication equipment of the type used by the motor vehicle industry
4. Demonstrate the proper use of motor vehicle, cutting and other fabrication equipment in the construction of sample exercises and projects
5. Perform to a minimum skill level illustrated by workmanship samples

TOPICAL OUTLINE:

APPROX. HOURS

I.	Welding safety	5
II.	Heat effects of thermal cutting and welding	4
III.	Cutting and forming	5
IV.	Basic pattern development	4
V.	Motor vehicle welding, brazing and soldering	5
VI.	Fixtures and jigs	3
VII.	Project fabrications	<u>24</u>
	Total	50

REVISED BY: Rodger Squirrell  
DATE: January 20, 2003