_____SOUTH SEATTLE COMMUNITY COLLEGE_____
Technical Education Division

COURSE OUTLINE
Revision: S. Ford - February 2012

DEPARTMENT:	Automotive Technology
CURRICULUM:	Auto Body Collision Repair
COURSE TITLE:	Preparing the Surface for Refinishing
COURSE NUMBER:	ABR 132
TYPE OF COURSE:	Vocational Preparatory
COURSE LENGTH:	5 weeks
CREDIT HOURS:	6
LECTURE HOURS:	15
LAB HOURS:	110
CLASS SIZE:	20
PREREQUISITES:	ABR 111 (Introduction to Automotive Collision Technology), ABR 112 (Safety and Environmental Practices) and ABR 113 (Welding and Cutting), or instructors permission

COURSE DESCRIPTION:

This module instructs the student how to determine the condition of a vehicle's finish and plan the steps to be used in refinishing the vehicle. Instruction in safety, environmental awareness, human relations and work ethics are taught as an integral part of this course of study.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Critical Thinking and Problem Solving - Think critically in evaluating information to determine paint finish and select repair method.
2. Information Literacy - Use information from automotive dealers, paint suppliers, etc., to select correct materials needed for repair.

ABR 132 Preparing the Surface for Refinishing

STUDENT LEARNING OUTCOMES ADDRESSED: (cont.)

3. Personal Responsibility - Manage personal health and safety when working with refinishing materials.

GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Determine type of paint on vehicle and plan refinishing system.
2. Remove paint from a vehicle using a variety of methods.
3. Understand the importance of corrosion protection, the materials used in corrosion protection, and how to clean and treat the metal in the repair area before refinishing.
4. Select and apply the proper undercoat materials.
5. Select sanding material and equipment and how to sand vehicle prior to the refinishing process.
6. Prepare adjacent panels for blending.
7. Apply the proper sealer to be used on various vehicle seams and joints.
8. Determine where chip-resistant coatings have been used by the manufacture and reapply similar coatings to the new or repaired parts.
9. Demonstrate masking of a vehicle for spot repairs, panel repairs or a complete refinish job, using a variety of masking materials.

TOPICAL OUTLINE:		APPROX. HOURS
I.	Determine type and color of paint on vehicle and plan refinish system	10
II.	Remove paint finish and clean surface	20
III.	Clean surface and apply metal treatment	10
IV.	Apply sealer, prime, and primer-surfacer	20
V.	Block sand to level surface	20
VI.	Prepare adjacent panels for blending	10
VII.	Apply caulkings and seam sealers	10
VIII.	Apply chip-resistant coatings to repaired areas or new sheet metal following manufacture's recommendations	10
IX.	Mask vehicle for refinishing	15
	Total	125

REVISED BY: Steve Ford
DATE: February 2012