

# AUTOMOTIVE COLLISION TECHNOLOGY (ABOD)

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## **ABOD 100. Introduction to Automotive Collision Technology**

Credits: 2

Typically Offered: FALL

Students are introduced to Automotive Collision Technology career requirements, the language of the trade, and shop safety.

## **ABOD 105. Introduction to Metal Finishing**

Credits: 5

Typically Offered: FALL

This course covers the proper methods of filing, metal picking, and use of power grinders to properly finish metal surfaces, as well as the theory of expansion and contraction of metals during welding. Students are introduced to when and how to use plastic fillers. Shop safety is stressed.

## **ABOD 107. Introduction to Sanding, Priming and Painting**

Credits: 6

Typically Offered: FALL

Students are introduced to thinning and the proper use of primer. The proper use of sandpaper and the art of sanding are initiated and practiced at this time.

## **ABOD 108. Intermediate Metal Finishing**

Credits: 4

Prerequisite: ABOD 105 or departmental approval.

Typically Offered: SPRING

A lab course in which students are introduced to roughing out and aligning damaged areas of a vehicle. Students upgrade their manipulative skills.

## **ABOD 109. Plastics and Adhesives**

Credits: 4

Typically Offered: SPRING

Different types of plastic material are introduced. Students are in lab practicing the use of adhesives on plastic repairs.

## **ABOD 110. Auto Body Welding**

Credits: 4

Typically Offered: FALL

Students are introduced to basic training in the use of oxyacetylene torch and wire feed welders. Equipment, safety, and common weld joints are covered using both welding processes. Lecture and shop instruction apply welding techniques and process used in industry. Welding fuels, gases, electric current, electrodes and their applications are introduced.

## **ABOD 112. Introduction to Painting**

Credits: 4

Prerequisites: ABOD 105 and ABOD 107 or departmental approval.

Typically Offered: SPRING

The proper use, maintenance and adjustment of paint equipment is demonstrated. Students are introduced to thinners, reducers and additives in paint, and to painting damaged vehicles.

## **ABOD 114. Component Parts-Replacement and Adjustment**

Credits: 5

Typically Offered: SPRING

Students are introduced to the techniques of installing and properly adjusting doors, hoods, and trunk lids, and replacing and aligning new body panels. This course also covers the proper techniques of installing windshields, window regulators and glass channels.

## **ABOD 200. Mechanical and Electrical Components**

Credits: 5

Typically Offered: SUMMER

Demonstrate the proper use, maintenance, and adjustment of electrical and mechanical equipment. Introduce multi-meters, various testing equipment, and troubleshooting techniques. The course consists of theory and receiving hands-on experience in the different types of electrical and mechanical components.

## **ABOD 210. Advanced Painting**

Credits: 1

Typically Offered: SUMMER

This is a lecture demonstration and application course in learning color control to apply and blend with existing color in spot painting. Factory representatives will also demonstrate the latest paints and painting techniques.

**ABOD 216. Frame Straightening and Wheel Alignment**

Credits: 3

Typically Offered: SUMMER

A lab course in which students are introduced to frame straightening equipment used to align damaged channel frames, installation of bumpers on vehicle, and setting caster, camber, and toe-in of modern car.

**ABOD 220. Estimating and Industrial Management**

Credits: 1

Typically Offered: SUMMER

Students are introduced to estimating, bidding and using crash manuals by appraising jobs. Students also get practical experience in management by operating the storeroom and stock control room. Personal and public relations are also covered.