



# Wayne County Community College District

## COURSE SYLLABUS

### ABT 141 Auto Body Surface Preparation and Body Fillers

---

**CREDIT HOURS:** 4.00

**CONTACT HOURS:** 60.00

#### **COURSE DESCRIPTION:**

This course covers all aspects of auto body surface preparation after surface defects in panels and trim pieces have been corrected. Determining the auto body surface condition, the steps left to finish it and ready the auto body for painting are central to this course. Also covered are the correct mixing and application of body fillers to increase the quality of the finished repair.

**PREREQUISITES:** ABT 105

#### **EXPECTED COMPETENCIES:**

*Upon completion of this course, the student will be familiar with:*

##### **1. Surface Preparation**

- Inspect, remove, store, and replace exterior trim and components necessary for proper surface preparation.
- Soap and water wash entire vehicle; use appropriate cleaner to remove contaminants.
- Inspect and identify type of finish, surface condition, and film thickness; develop and document a plan for refinishing using a total product system.
- Strip paint to bare substrate (paint removal).
- Dry or wet sand areas to be refinished.
- Featheredge areas to be refinished.
- Apply suitable metal treatment or primer in accordance with total product systems.
- Mask and protect other areas that will not be refinished.
- Mix primer, primer-surfacer or primer-sealer.
- Identify a complimentary color or shade of undercoat to improve coverage.
- Apply primer onto surface of repaired area.
- Apply two-component finishing filler to minor surface imperfections.
- Block sand area to which primer-surfacer has been applied.
- Dry sand area to which finishing filler has been applied.
- Remove dust from area to be refinished, including cracks or moldings of adjacent areas.
- Clean area to be refinished using a final cleaning solution.
- Remove, with a tack rag, any dust or lint particles from the area to be refinished.
- Apply suitable sealer to the area being refinished.
- Scuff sand to remove nibs or imperfections from a sealer.
- Apply stone chip resistant coating.
- Restore caulking and seam sealers to repaired areas.
- Prepare adjacent panels for blending.
- Identify the types of rigid, semi-rigid or flexible plastic parts to be refinished; determine the materials needed, preparation, and refinishing procedures.



# Wayne County Community College District

## COURSE SYLLABUS

### ABT 141 Auto Body Surface Preparation and Body Fillers

---

- Identify metal parts to be refinished; determine the materials needed, preparation, and refinishing procedures.

#### 2. Spray Gun and Related Equipment Operation

- Inspect, clean, and determine condition of spray guns and related equipment (air hoses, regulators, airlines, air source, and spray environment).
- Select spray gun setup (fluid needle, nozzle, and cap) for product being applied.
- Test and adjust spray gun using fluid, air and pattern control valves.
- Demonstrate an understanding of the operation of pressure spray equipment.

#### ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

#### GRADING SCALE:

90%-100%	=	A
80%-89.9%	=	B
70%-79.9%	=	C
60%-69.9%	=	D
<60%	=	E