



Wayne County Community College District

COURSE SYLLABUS

ABT 203 Advanced Finishes, Custom Painting and Detailing

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION: Fundamental auto body finishing skills are developed in this course with the addition of proper techniques for the application of metallic colors, spot repairs, color blending, tri-coat finishes and specialty products. Basic custom painting techniques, advanced color mixing and matching, detailing, pin striping, and decal application will be covered. The removal of overspray and the proper cleaning of the exterior of the vehicle will also be emphasized.

PREREQUISITES: ABT 201

EXPECTED COMPETENCIES:

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

1. Paint Defects - Causes and Cures

- Identify blistering (raising of the paint surface, air entrapment); determine the cause(s) and correct the condition.
- Identify a dry spray appearance in the paint surface; determine the cause(s) and correct the condition.
- Identify the presence of fish-eyes (crater-like openings) in the finish; determine the cause(s) and correct the condition.
- Identify lifting; determine the cause(s) and correct the condition.
- Identify clouding (mottling and streaking in metallic finishes); determine the cause(s) and correct the condition.
- Identify orange peel; determine the cause(s) and correct the condition.
- Identify overspray; determine the cause(s) and correct the condition.
- Identify solvent popping in freshly painted surface; determine the cause(s) and correct the condition.
- Identify sags and runs in paint surface; determine the cause(s) and correct the condition.
- Identify sanding marks or sandscratch swelling; determine the cause(s) and correct the condition.
- Identify contour mapping/edge mapping while finish is drying; determine the cause(s) and correct the condition.
- Identify color difference (off-shade); determine the cause(s) and correct the condition.
- Identify tape tracking; determine the cause(s) and correct the condition.
- Identify low gloss condition; determine the cause(s) and correct the condition.
- Identify poor adhesion; determine the cause(s) and correct the condition.
- Identify paint cracking (shrinking, splitting, crowsfeet or line-checking, micro-checking, etc.); determine the cause(s) and correct the condition.
- Identify corrosion; determine the cause(s) and correct the condition.
- Identify dirt or dust in the paint surface; determine the cause(s) and correct the condition.
- Identify water spotting; determine the cause(s) and correct the condition.
- Identify finish damage caused by bird droppings, tree sap, and other natural causes; correct the condition.



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- Identify finish damage caused by airborne contaminants (acids, soot, rail dust, and other industrial-related causes); correct the condition.
 - Identify die-back conditions (dulling of the paint film showing haziness); determine the cause(s) and correct the condition.
 - Identify chalking (oxidation); determine the cause(s) and correct the condition.
 - Identify bleed-through (staining); determine the cause(s) and correct the condition.
 - Identify pin-holing; determine the cause(s) and correct the condition.
 - Identify buffing-related imperfections (swirl marks, wheel burns); correct the condition.
 - Identify pigment flotation (color change through film build); determine the cause(s) and correct the condition.
2. Final Detail
- Apply decals, transfers, tapes, woodgrains, pinstripes (painted and taped), etc.
 - Sand, buff and polish fresh or existing finish to remove defects as required.
 - Clean interior, exterior, and glass.
 - Clean body openings (door jambs and edges, etc.).
 - Remove overspray.
 - Perform vehicle clean-up; complete quality control using a checklist.

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