

RANKEN

TECHNICAL COLLEGE

COURSE INFORMATION

Course Number: ACR 2211

Course Name: Painting and Refinishing Theory

CREDIT-BY-ASSESSMENT (CBA) COMPETENCY LIST

- Explain why hazardous materials regulations were developed and describe the information found in a Material Safety Data Sheet (MSDS).
- Identify which defects could be removed through the detailing process and which defects required sanding and refinishing.
- Explain the use of pH scale when performing collision detailing.
- Describe the various equipment needs when refinishing.
- Determine type and color of the original finish using the vehicle paint code label.
- Identify signs of prior refinishing and discuss the effect it might have on your refinishing plan.
- Explain correct preparation procedures for various substrates, and distinguish different types of plastics used on today's vehicles.
- Identify paint issues and defects, determine the cause, and explain how to correct the condition.
- Explain how cycle time is affected and how improvements can impact business efficiency; identify opportunities to improve customer relations.
- Explain the differences in solvent borne and water borne paint technologies.
- Describe the equipment needs when changing the paint department to spray waterborne.
- Describe the various areas where corrosion protection needs to be addressed. Explain the procedures when replacing corrosion protection in each of these areas.
- Arrange colors in the color spectrum in the proper order and label the color tree with value, hue and chroma.
- Identify colors with metallic flakes, pearl flakes, groundcoat, midcoat, and clearcoat layers of a tri-coat finish.
- Identify the most likely toner needed to match various colors using the color plotting method.
- Describe features and technologies that distinguish newer model vehicles from their predecessors.