

# RANKEN

TECHNICAL COLLEGE

## COURSE INFORMATION

Course Number: ACR 1111

Course Name: Non-Structural Analysis and Damage Repair Theory

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## CREDIT-BY-ASSESSMENT (CBA) COMPETENCY LIST

- Explain why hazardous materials regulations were developed and covers the information found in a Material Safety Data Sheet (MSDS).
- Identify characteristics and considerations for steel repairs.
- Describe considerations around replacing bumpers, hoods, and fenders. Also be able to show removal and installation procedures for doors.
- Describe different styles of roll-up side door glass and processes for replacing and adjusting door glass, also distinguish different parts involved in window regulators and design considerations of window channels and runs.
- Describe the considerations for using recycled parts, identify parts that are commonly recycled and those that are not, and be able to explain steps for preparing and installing recycled parts.
- Explain how cycle time is affected and how improvements can impact business efficiency; identify opportunities to improve customer relations.
- Identify different types of plastics by their characteristics and determine the level of plastic identification that is required to perform a repair.
- Explain correct preparation procedures for plastics, and distinguish different types of plastics used on today's vehicles and the correct methods to repair.
- Describe features and technologies that distinguish newer model vehicles from their predecessors.
- Identify characteristics and considerations around aluminum repairs.
- Identify bolted and adhesively bonded parts, explain considerations around repairing and replacing riveted and rivet-bonded panels.
- Explain diagnostic procedures for locating wind noise and water leaks, and describe repair procedures for wind noise and water leaks.
- Describe removal and installation procedures for exterior panels, identify exterior panel construction and attachment methods, explain considerations around replacing door skins and welded-on hinges, roof panels.
- Describe the role of stationary glass; compare methods for removing and installing a windshield.
- Describe proper pinchweld preparation, and outline steps for preparing the glass and applying the adhesive.