

RANKEN

TECHNICAL COLLEGE

COURSE INFORMATION

Course Number: ACR 2111

Course Name: Collision Mechanical Components Theory

CREDIT-BY-ASSESSMENT (CBA) COMPETENCY LIST

- List the components of an ABS system and explain how it operates.
- List two types of automotive air conditioning systems, their components and explain how they operate.
- Identify the parts of a Hybrid Electric Vehicle (HEV).
- Identify cooling system parts for the inverter/converter and engine on an HEV.
- Explain how a two-mode HEV operates.
- List the components of a drum brake system.
- Identify three types of drive systems.
- Identify three different vibration sources and how to diagnose them.
- Explain Ohm's Law.
- Explain what a voltage drop test is and how to perform it.
- Explain the difference between a computer system input and output.
- Identify the components of a fuel system and explain what they do.
- Identify the components of an exhaust system and explain what they do.
- Explain how to load test an automotive battery.
- Explain how a relay and solenoid work.
- Identify the required personal protection equipment and fire handling steps according to the MSDS for an assigned hazardous material.
- Explain the operation of the hill assist system.
- Identify the components of the cross traffic alert system and explain how it operates.
- List what the first, eighth, and tenth digits of the VIN identify.
- List the parts of a parallelogram steering system.
- List five alignments angles and give their definitions.