## AMST1132 - Drivetrains I

| Credits:                        | 3 (2/1/0)   |
|---------------------------------|---|
| Description:                    | This course covers service and theory of operation of clutch, manual transmission, drive shaft<br>and drive axle systems. Service involves removal, disassembly, repair, reassembly and<br>adjustment of these systems. Noise vibration and harshness in the drive train system will be<br>diagnosed and repaired.  |
| Prerequisites:                  |   |
| Corequisites:                   | • AMST1101  |
| Pre/Corequisites <sup>*</sup> : |   |
| Competencies:                   | <ol> <li>Exhibit safety precautions and professionalism.</li> <li>Interpret service information.</li> <li>Perform front wheel drive transmission disassembly and reassembly.</li> <li>Perform clutch replacement and adjustments.</li> <li>Perform rear wheel drive transmission disassembly and reassembly.</li> <li>Perform rear wheel drive transmission disassembly and reassembly.</li> <li>Perform drive shaft repair, alignment and balance testing.</li> <li>Perform front axle repair and replacement.</li> <li>Calculate gear ratios and power flow throughout transmissions.</li> <li>Diagnose noise, vibration and harshness within the drive train.</li> </ol> |
| MnTC goal areas:                | None  |

\**Can be taking as a Prerequisite or Corequisite.*