

DCNH2242 - Advanced Engines and Fuel Systems

Credits:	6 (2/4/0)
Description:	This course is designed to give students an understanding of medium- and heavy-duty diesel engines used in Case New Holland equipment. Engines being studied include but are not limited to Cummins, Iveco, International Harvester and New Holland. Areas of study include base engine components, intake and exhaust systems, emission control devices, lubrication systems, cooling systems and fuel systems.
Prerequisites:	• DSET1132 • DSET1136
Corequisites:	
Pre/Corequisites*:	
Competencies:	 Demonstrate safety procedures. Utilize service publications for disassembly and reassembly procedures. Disassemble complete engine assembly. Analyze cylinder block components. Utilize service publications to determine the reuse guidelines of internal engine parts. Assemble cylinder block components. Inspect lube system components. Inspect cooling system components. Disassemble cylinder head and related parts. Analyze cylinder head components. Analyze air inlet and exhaust components. Analyze air inlet and exhaust components. Reform engine tune-up procedures. Inspect fuel system components. Assemble air inlet components. Assemble exhaust system components. Assemble fuel system components. Troubleshoot engines using original equipment manufacturer (OEM) diagnostic software (if applicable). Exhibit professionalism.
MnTC goal areas:	None

^{*}Can be taking as a Prerequisite or Corequisite.