HEAVY EQUIPMENT TECHNICIAN - INTERMEDIATE TECHNICAL CERTIFICATE (ITC)

Explore More About This Program: https://cwi.edu/program/heavy-equipment-technician

Certificate Quick Facts

- **Instructional School:** Industry, Engineering, and Trades
- **Department:** Powersports and Diesel Technology
- **Program Code:** HTEC.ITC
- **Program Type:** Career and Technical Education
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

NOTE: Courses required for this program *may* have an additional fee; more information can be found on the Special Course Fees web page.

Certificate Requirements

Course	Course Title	Min Credits
General Education Requirements		
Select one of the following:		3
COMM 101	Fundamentals of Oral Communication (Recommended GEM 2) [1]	
CWI 101	Connecting With Ideas (Recommended GE Elective) [1]	
ENGL 101	Writing and Rhetoric I (Recommended GEM 1) [1]	
MATH 118 & 118L	Technical Math and Technical Math Lab (Recommended GEM 3) [1]	
PSYC 140	Human Relations for Career and Personal Success (Recommended GEM 6) [1]	
Major Requirements		
HTEC 111	Introduction to Heavy Equipment Service Industry	3
HTEC 121	DC Circuits & Basic Electrical Systems	3
HTEC 131	Track Systems and Mechanical Repair	3
HTEC 141	Diesel Engine Theory of Operation and Repair	3
HTEC 151	Preventive Maintenance	3
HTEC 161	HVAC System Service	3
HTEC 171	Fundamentals of Fluid Power	3
HTEC 181	Principles of Electronically Managed Systems	3
HTEC 211	Gearing and Driveline Systems	3
HTEC 221	Mobile Equipment Hydraulic Systems	3
HTEC 231	Transmissions	3
HTEC 241	On-Board Vehicle Networks and Electronic Systems Troubleshooting	3
HTEC 251	Engine Emissions and Fuel Systems	3
HTEC 261	Hydraulic System Service and Repair	3
Minimum Credit Hours Required		**45**

[1] The general education (GE) courses listed above are recommended by the department as the most beneficial GE options for students in this program. **Please note that students may fulfill their GE requirement by completing another course from within one of the designated general education categories.**