

HEAVY EQUIPMENT TECHNICIAN - ADVANCED TECHNICAL CERTIFICATE (ATC)

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.ATC
- **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		
MATH 118 & 118L	Technical Math and Technical Math Lab (Recommended GEM 3) ¹	3
Select one of the following:		3
ENGL 101	Writing and Rhetoric I (Recommended GEM 1) ¹	
COMM 101	Fundamentals of Oral Communication (Recommended GEM 2) ¹	
Select one of the following:		3
CWI 101	Connecting With Ideas (Recommended GE Elective) 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
HTEC 271	Industry Practicum	3
Minimum Credit Hours Required		54

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 requirements by completing another course from within the designated general education category.**