

ADVANCED DIESEL TECHNOLOGY

PROGRAM

- Associate of Science (A.S.)



**HARTNELL
COLLEGE**

DESCRIPTION

The Advanced Diesel Technology program is designed to provide students with the skills and knowledge required to succeed as technicians in the field of heavy-duty diesel equipment, transportation and agriculture industries, or related industries. The curriculum provides both theoretical and hands-on learning experiences that provide students with the opportunity to apply the learned skills in a variety of different areas, such as transportation, and agriculture equipment. Diagnosis and repair procedures performed on heavy-duty diesel equipment enable students to develop the skills required for placement in the heavy duty diesel technology industry.

LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Automotive Service Technician and Mechanic
- Bus and Truck Mechanic
- Diesel Engine Specialist
- Diesel Service Technician
- Engine Builder
- Industrial Repair
- Locomotive Service and Repair
- Parts Manager
- Retail Service Technician
- Service Advisor
- Shop Manager
- Specialty Shop Technician

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

TRANSFER RESOURCES

www.ASSIST.org – CSU and UC Articulation Agreements and Major Search Engine

CSU System Information -
<http://www2.calstate.edu>

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

<https://www.hartnell.edu/students/fa/net-price-calculator.html>

ADVANCED DIESEL TECHNOLOGY (AS.ADT)

ASSOCIATE OF SCIENCE

Program Outcomes: Upon successful completion of this program a student will be able to:

- accurately complete work orders that relate to equipment/engines/motors manifesting problems, suggest corrective actions, and complete repairs.
- apply knowledge of personal and environmental safety practices to promote a safe work environment and environmental responsibility.
- research applicable equipment and service information using heavy-duty equipment manuals in print and electronic formats, pertinent websites, and diagnostic equipment to identify, analyze, and correct problems of all major heavy-duty equipment systems.
- acquire Snap-on industry-recognized industry recognized certifications.
- demonstrate basic computer literacy skills.

Required Major Courses (44 units)

<input type="checkbox"/> ADT-100 – Diesel Engine Technology	4.0
<input type="checkbox"/> ADT-101 – Diesel Engine Rebuild	4.0
<input type="checkbox"/> ADT-110 – Electrical and Electronic Systems	4.0
<input type="checkbox"/> ADT-111 – Electrical Systems and Controls	4.0
<input type="checkbox"/> ADT-120 – Climate Control	4.0
<input type="checkbox"/> ADT-121 – Preventative Maintenance	4.0
<input type="checkbox"/> ADT-130 – Brake Systems	4.0
<input type="checkbox"/> ADT-131 – Steering and Suspension Systems	4.0
<input type="checkbox"/> ADT-140 – Power Drivetrain	4.0
<input type="checkbox"/> ADT-141 – Automatic Transmissions	4.0
<input type="checkbox"/> BUS-43 – Business Info Systems and Info Literacy	4.0
OR	
<input type="checkbox"/> BUS-50 – Introduction to PC Applications	4.0

SUBTOTAL: 44 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 68) *MAT-126 or higher*

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

Students can double-count required courses and courses for General Education

- **Electives (Courses Numbered 1-199) required when degree units plus GE units total fewer than 60.**
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TOTAL: 65 UNITS