



Skilled and Technical Sciences

**Transportation,
Distribution, & Logistics
Cluster Standards**

Delaware Department of Education (DE DOE)
 Skilled and Technical Sciences Standards
 for
Aircraft Powerplant Technology/Technician

Additional Teacher Requirements: Work experience and education that meets DE DOE certification requirements for Skilled and Technical Sciences teacher
<http://regulations.delaware.gov/AdminCode/title14/1500> plus:

1. A current Federal Aviation Administration (FAA) Aircraft Powerplant License in good standing <http://www.faa.gov> .
2. A current Federal Aviation Administration (FAA) Aircraft Airframe License in good standing <http://www.faa.gov> .

For Delaware STS Teacher Certification, a current FAA Aircraft Powerplant License is equal to three Career-Related credits and a current FAA Aircraft Airframe License is equal to three Career-Related credits.

Aircraft Powerplant Technician Pathway					
509 CIP#	Classification of Instructional Programs (CIP) Name	Skill Level	Credits	Standard	End of Pathway Assessment
47.060821	Aircraft Powerplant Tehcnology/Technician I	Foundational Skills	Minimum of 3	Minimum of 400 training hours in Sec. B 147.1 General Curriculum Subjects AND 750 training hours in Sec. D 147.1 Powerplant Curriculum Subjects from the Federal Aviation Administration's Regulations for Aviation Maintenance http://rgl.faa.gov	Professional Aviation Maintenance Association (PAMA) Aviation Maintenance Association' Certification Test for Aviation Maintenance Specialist (AMS) www.pama.org
47.060822	Aircraft Powerplant Tehcnology/Technician II	Intermediate Skills	Minimum of 3		
47.060823	Aircraft Powerplant Tehcnology/Technician III	Employment-entry Skills, Cooperative Employment Opportunities, and Exam Preparation	Minimum of 2		

Standards Subcommittee Members:

Mr. John Serwinski, Delcastle Technical H.S.
 Dr. Dale R. Derrickson, DE DOE
 Mr. Mike Harkins, Delaware PAMA and AeroTaxi
 Mrs. Sandra Dowling, NCCVT

Delaware Department of Education (DE DOE)
 Skilled and Technical Sciences Standards
 for

Automobile/Automotive Mechanical Technology/Technician

Additional Teacher Requirements: Work experience and education that meets DE DOE certification requirements for Skilled and Technical Sciences teacher
<http://regulations.delaware.gov/AdminCode/title14/1500> plus:

Pre-requisite Certifications:

1. Current National Institute for Automotive Service Excellence’s ASE Master Automobile Technician Certification which includes individual certifications in all of the following areas www.ase.com:

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| A. Engine Repair (Test A1) | E. Brakes (Test A5) |
| B. Automatic Transmission/Transaxle (Test A2) | F. Electrical/Electronic Systems (Test A6) |
| C. Manual Drivetrain and Axles (Test A3) | G. Heating and Air Conditioning (Test A7) |
| D. Suspension and Steering (Test A4) | H. Engine Performance (Test A8) |

Certification Requirements:

1. National Automotive Technicians Education Foundation’s (NATEF) Certified Technician Training program requirements for automotive instructors www.natef.com.

For Delaware STS Teacher Certification, ASE Master Automobile Technician Certification is equal to nine Career-Related credits.

Automobile/Automotive Mechanical Technology/Technician Pathway					
509 CIP#	Classification of Instructional Programs (CIP) Name	Skill Level	Credits	Standard	End of Pathway Assessment
47.060421	Automobile/Automotive Mechanical Technology/Technician I	Foundational Skills	Minimum of 2	National Automotive Technicians Education Foundation (NATEF) National Standards in the following Core Areas: 1. Suspension and Steering 2. Brakes 3. Electrical/Electronic Systems 4. Engine Performance www.natef.org	Automotive Youth Educational Systems (AYES) Exit Exam www.ayes.org
47.060422	Automobile/Automotive Mechanical Technology/Technician II	Intermediate Skills	Minimum of 2		OR
47.060423	Automobile/Automotive Mechanical Technology/Technician III	Employment-entry Skills, Cooperative Employment Opportunities, and Exam(s) Preparation	Minimum of 2		Automotive Technician Standard (Test Code 4009) Job Ready Written Assessment from the National Occupational Competency Testing Institute (NOCTI) www.nocti.org

Standards Subcommittee Members:

- Mr. James King, NCCVTSD
- Mr. Paul Davis, Delcastle Technical H.S.
- Mr. Gary Thornton, Hodgson Vocational-Technical H.S.
- Mr. Les Humphrey, Sussex Technical H.S.
- Mr. David Borrelli, Polytech H.S.
- Mr. James Hill, St. Georges H.S. of Technology

Delaware Department of Education (DE DOE)
 Skilled and Technical Sciences Standards
 for

Autobody/Collision and Repair Technology/Technician

Additional Teacher Requirements: Work experience and education that meets DE DOE certification requirements for Skilled and Technical Sciences teacher
<http://regulations.delaware.gov/AdminCode/title14/1500> plus:

Pre-requisite Experience:

1. Prospective teachers must have a minimum of six years experience working in an auto body shop that includes experience in both damage repair AND painting/refinishing.

Pre-requisite Certification(s):

1. Current I-CAR Platinum Individual Certification www.i-car.com ; OR
2. Current National Institute for Automotive Service Excellence’s ASE Technician Certification which includes individual certifications in all of the following areas www.ASE.com:

A. Painting and Refinishing (B2)	D. Mechanical and Electrical Components (B5)
B. Non-Structural Analysis and Damage Repair (B3)	E. Damage Analysis and Estimating (B6)
C. Structural Analysis and Damage Repair (B4)	

For Delaware STS Teacher Certification, I-CAR Platinum Individual Certification is equal to nine Career-Related credits. For Delaware STS Teacher Certification, ASE Technician Certifications in B2, B3, B4, B5, and B6 equal a combined total of nine Career-Related credits.

Autobody/Collision and Repair Technology/Technician Pathway					
509 CIP#	Classification of Instructional Programs (CIP) Name	Skill Level	Credits	Standard	End of Pathway Assessment
47.060321	Autobody/Collision and Repair Technology/Technician I	Foundational Skills	Minimum of 2	I-CAR Training Standards for: 1. Core Training 2. Non-Structural Repair I 3. Structural Repair I 4. Refinishing I & II 5. Mechanical Repair I 6. Estimating, Management, Appraisal I www.i-car.com	Collision Repair and Refinishing Technology (Test Code 2083) Job Ready Written Assessment from the National Occupational Competency Testing Institute (NOCTI) www.nocti.org OR I-CAR Qualification Tests for all areas included in Delaware Standards www.i-car.com
47.060322	Autobody/Collision and Repair Technology/Technician II	Intermediate Skills	Minimum of 2		
47.060323	Autobody/Collision and Repair Technology/Technician III	Employment-entry Skills, Cooperative Employment Opportunities, and Exam(s) Preparation	Minimum of 2		

Standards Subcommittee Members:

- Mr. James Friedel, Sussex Technical H.S.
 Mr. Tony Tiberi and Mr. John Collins, Delcastle Technical H.S.
 Mr. Robert Langshaw and Mr. Allen Vanover, Hodgson Vocational-Technical H.S.
 Mr. Jim Stevens, Polytech H.S.
 Mr. Jim King, NCCVTSD

Delaware Department of Education (DE DOE)
 Skilled and Technical Sciences Standards
 for
Small Engine Mechanic and Repair Technology/Technician

Additional Teacher Requirements: Work experience and education that meets DE DOE certification requirements for Skilled and Technical Sciences teacher
<http://regulations.delaware.gov/AdminCode/title14/1500> plus:

Pre-requisite Certification: Current Equipment and Engine Training Council (EETC)/Outdoor Power Equipment (OPW) Certification (www.eetc.org) in “Four Stroke” and “Two Stroke” and at least one of the following areas:

1. Electrical
2. Compact Diesel
3. Driveline/Hydraulics/Hydrostatic

Equipment and Engine Training Council (EETC) Certification is in each of the above certification areas is equal to three Career-Related credits up to a maximum of nine Career-Related Credits.

Small Engine Mechanic and Repair Technology/Technician Pathway					
509 CIP#	Classification of Instructional Programs (CIP) Name	Skill Level	Credits	Standard	End of Pathway Assessment
47.060621	Small engine Mechanic and Repair Technology/Technician I	Foundational Skills	Minimum of 2	Program must be a Category 1, 2, 3, 4, & 5 Equipment and Engine Training Council (EETC) Accredited School using EETC Approved Textbooks in: 1. Two & Four Stroke Engines 2. Electrical www.eetc.org	Equipment and Engine Training Council (EETC) Four Stroke Certification Test www.eetc.org
47.060622	Small engine Mechanic and Repair Technology/Technician II	Intermediate Skills	Minimum of 2		
47.060623	Small engine Mechanic and Repair Technology/Technician III	Employment-entry Skills, Cooperative Employment Opportunities, and Exam Preparation	Minimum of 2		

Standards Subcommittee Members:

Mr. Dean Dickerson, Howard H.S. of Technology
 Mr. Tom Ford, Howard H.S. of Technology
 Mr. Nick Buono, NCCVTSD
 Dr. Dale Derrickson, DE DOE