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DIESEL TECHNOLOGY ACADEMY

1st Year Program of Studies

Courses in blue articulate into associate of applied science degree (AAS).

Fall Semester		Credit	Spring Semester		Credit
DEMR 1401	Shop Safety and Procedures A study of shop safety, rules, basic shop tools, and test equipment.	4	DEMR 1405 *10-Hour OSHA *HOLT CAT ProTech Electricity TG01	Basic Electrical Systems* A review of applied math models and study of different blueprints, with emphasis on machine blueprints and the application of each.	4
DEMR 1406 *HOLT CAT ProTech Engine D&A DE 101	Diesel Engines An introduction to the basic principles of diesel engines and systems.	4	DEMR 1416 *HOLT CAT ProTech Hyraulics TM 28	Basic Hydraulics* Fundamentals of hydraulics including components and related systems	4
Fall Semester Total		8	Spring Semester Total		8
Year 1 Total	Level I Certificate of Completion Diesel Heavy Equipment				16
Summer Semeste	er				Credit
DEMR 2288 Internship: Diesel Mechanics Technology/Technician Practical, general workplace training supported by an individualized learning plan.					

Summer Semester Total

2nd Year Program of Studies

Courses in blue articulate into associate of applied science degree (AAS).

Fall Semester		Credit	Spring Semester		Credit
DEMR 1329	Preventative Maintenance Introduction to proper servicing practices. Content includes record keeping and condition of major systems.	3	DEMR 2434 *HOLT CAT ProTech Electronic Troubleshooting DE205	Advanced Diesel Tune-Up and Troubleshooting* Advanced concepts & skills required for tune- up & troubleshooting procedures of diesel engines. Emphasis on the science of	4
DEMR 2432	Electronic Controls (Articulates only to Diesel Construction Equipment Technician-AAS) Advanced skills in diagnostic and programming techniques of electronic control systems.	4	DEMR 2435	diagnostics with a common sense approach. Advanced Hydraulics (Articulates only to Diesel Construction Equipment Technician-AAS) Advanced study of hydraulic systems & components including diagnostics & testing of hydraulic systems.	4
Fall Semester Total 7		7	Spring Semester To	otal	8
Year 2 Total	Level I Certificate of Completion Advanced Diesel Heavy Equipment				15

Two Year Program of Studies: 9 Courses totaling 33 credit hours

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DIESEL TECHNOLOGY ACADEMY

	Level I Certificat Diesel Heav	e of Completion y Equipment			Level I Certificat Diesel Heavy		
	ASSOCIATE OF AF	PPLIED SCIENCES)		ASSOCIATE OF AF	PLIED SCIENCES	
Diesel/Light to Heavy Truck Technology Courses in blue articulate into associate of applied science degree (AAS).				Diesel Construction Equipment Technician Courses in blue articulate into associate of applied science degree (AAS).			
Semester 1			Credit	Semester 1			Credit
DEMR 1401 DEMR 1406 DEMR 1405 DEMR 1416	Shop Safety & Pr Diesel Engine Basic Electrical S Basic Hydraulics		4 4 4 4	DEMR 1401 DEMR 1406 ENGL 1301 MATH 1332	Shop Safety & Pr Diesel Engine Composition I Contemporary Ma	ocedures athematics or other*	4 4 3 3
1st Semester Total		16	1st Semester Total			14	
Semester 2			Credit	Semester 2	Semester 2		Credit
DEMR 1330 DEMR 1421 DEMR 1417 DEMR 2439	Steering & Suspe Power Train Basic Brake Syst Advanced Electri	ems	3 4 4 4	DEMR 1405 DEMR 1416 PHYS 1305 ECON 2301	Basic Electrical S Basic Hydraulics Introductory to P Principles of Mac	-	4 4 3 3
2nd Semester To	2nd Semester Total		15	2nd Semester To	tal		14
Semester 3			Credit	Semester 3			Credit
DEMR 1423 DEMR 1329 DEMR 2434	Heating, Ventilat Preventive Maint Adv Diesel Tune-	•	4 3 4	DEMR 2288	Internship, Diese	I Mechanics Technology	2
3rd Semester To	3rd Semester Total		11	3rd Semester Total		2	
Semester 4			Credit	Semester 4			Credit
ECON 1301 PHIL 2306 DEMR 2366	Introduction to E	conomics or Other* thics el Mechanics Technology	3 3 3	DEMR 1329 DEMR 2432 DEMR 1423 PHIL 2306	Preventative Mai Electronic Contro Heating, Ventilat Introduction to Et	ls ion, & Air Conditioning	3 4 4 3
4th Semester Tot	4th Semester Total 9		9	4th Semester Tot	al		14
Semester 5			Credit	Semester 5			Credit
MATH 1332 PHYS 1305 ENGL 1301 5th Semester Tot	Contemporary Ma Introduction to P Composition 1		3 3 3	DEMR 2434 DEMR 2435 DEMR 1417 HEMR 1401 5th Semester Tot	Basic Brake Syste Tracks & Underca	Advanced Hydraulics ems	4 4 4 4
Program Total			60	Program Total			60
DC/DTA: 23 Total AAS						6 Hours: 60	
Hours nee	ded Post DC/DTA: 37	General Acade Specific H		Hours nee	eded Post DC/DTA: 27	General Aca Speci io	demics: 15 : Hours: 45

See St. Philip's College degree description for more information: http://myspccatalog.alamo.edu/