

**PROGRAM DESCRIPTION:
DIPLOMA PROGRAM
POWERPLANT TECHNICIAN**

The courses in the Powerplant Technician Diploma program are designed to provide the necessary educational opportunities through classroom and laboratory teaching for a person to acquire the skills and knowledge needed to enter the industry as an entry-level Powerplant Technician. Graduates will be eligible to take the Federal Aviation Administration examinations. Upon successful completion of the written exams, the graduate will be eligible to take the oral and practical examinations to complete the requirements for the FAA Powerplant Certificate. With the FAA Powerplant Certificate, the powerplant technician may enter a number of employment areas, such as general aviation, fixed-base operations, executive aircraft services, major airlines, aircraft contractors, modification operations, and manufacturers as powerplant technicians or technical writers. The in Powerplant Technician Diploma program consists of 57 credit hours and 1174 contact hours, and is 40 weeks (day) and 70 weeks (evening) in length.

First Semester

Course #	Course Title	Semester Hours			
		Lecture	Lab	Total Contact	Credit
GS 100	Forms and Regulations	49	0	49	3
GS 101	Materials and Processes	24	25	49	2
GS 102	Ground Operation and Service; Cleaning and Corrosion Control	21	21	42	2
MATH 1314	College Algebra	48	0	48	3
MATH 2312	Pre-Calculus	48	0	48	3
GS 106	Aircraft Drawings	10	11	21	1
GS 107	Fluid Lines and Fittings	10	11	21	1
GS 103.1	Aviation Physics	30	12	42	2
GS 104.1	Basic Electricity	36	34	70	3
GS 105	Weight and Balance	14	14	28	1
Totals		290	128	418	21

Second Semester

PP 100	Reciprocating Engines I	45	39	84	4
PP 101.1	Reciprocating Engine Systems I	45	11	56	3
PP 101.2	Reciprocating Engine Systems II	32	31	63	3
PP 103.1	Reciprocating Engine Ignition and Starting Systems	30	5	35	2
PP 102	Reciprocating Engines II: Troubleshooting	21	21	42	2
PP 106	Propellers	35	35	70	3
PP 104	Engine Electrical Systems	35	35	70	3
PP 105	Engine Instrument Systems	20	15	35	1
PP 107.1	Turbine Engines I	40	16	56	3
PP 107.2	Turbine Engines II	15	34	49	2
PP 108	Turbine Engine Systems	45	32	77	4
PP 103.2	Turbine Engine Ignition and Starting Systems	10	11	21	1
PP 109	Engine Fire Protection Systems	10	11	21	1
PP 110	Engine Inspections	10	11	21	1
PP 111	Powerplant Repair and Operational Checks	45	11	56	3
Totals		438	318	756	36
Grand Totals		728	446	1174	57