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<u>Course Name</u>	<u>Students/Class Duration</u>	<u>Min / Max</u>	<u>Course Description</u>
Pilots Training			
Pilot Instrument	11wks	5 / 10	This course helps prepare pilots for flying missions under Instrument Meteorological Conditions (IMC) and in accordance with Instrument Flight Rules (IFR). It will teach both Federal Aviation Administration (FAA) and/or International Civil Aviation Organization (ICAO) rules and procedures. Students will learn basic instrument flying fundamentals to include how to interpret and use enroute charts, instrument approach plates, navigational aids, and GPS approaches. Students will receive academic instruction. Graduates of this course will be required to apply these procedures in their respective weapon systems with an experienced instructor or evaluator in order to become fully qualified for instrument operations. Students are required to pass a written and or performance test.
Procedures			
Instructor Pilot	23 wks	5 / 10	This course of instruction shall be combined with Pilot Instrument Procedures. This course is to reinforce the concepts introduced in the Pilot Instrument Procedures Course, and includes an additional week of academics to provide a familiarization to instructional procedures and
Instrument Procedures			

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skills necessary to be a flight instructor. It will teach both Federal Aviation Administration (FAA) and/or International Civil Aviation Organization (ICAO) rules and procedures and prepare the pilot for flying missions under Instrument Meteorological Conditions (IMC) and in accordance with Instrument Flight Rules (IFR). Students will receive academic instruction. Graduates of this course will be required to apply these procedures in their respective weapon systems with an experienced instructor or evaluator in order to be fully qualified for instrument operations.

<u>Course Name</u>	<u>Duration</u>	<u>Students/Class</u> <u>Min / Max</u>	<u>Course Description</u>
Airframes Technician Training	18 wks	5 / 10	Comprised of following courses/modules; Aircraft Structural, Aircraft Hydraulics, Aircraft Technician and Corrosion Control.
Aircraft Structural			This course/module is designed to prepare students for duties as an aircraft structural maintenance technician. The training includes how to repair, modify, and fabricate aircraft metal components and assemblies, cleaning and inspecting aerospace equipment for corrosion, removal of corrosion by mechanical and chemical

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Aircraft Hydraulics

treatment, manufacture and application of aerospace marking, mixture and application of organic coatings, cleaning and storage of spray equipment and manufacturing tubing and cable assemblies. Student will also learn the theory of corrosion and the course will to provide a better understanding about common aircraft metals. Students will also learn the fundamentals of painting aircraft parts.

This course/module is designed to train students on the fundamentals of aircraft structure/hydraulic systems at the apprentice and journeyman level, enabling students to become proficient in structural plus the hydraulic and pneumatic principles, system theory, subsystem operation, on-aircraft troubleshooting techniques and related system support equipment. This course includes the following blocks of instruction: familiarization, hardware, maintenance equipment, basic structural/hydraulic system and components, hydraulic subsystem units, shock absorbing devices, brake systems, and wheel brake assemblies. In addition, this course includes the basic instruction of corrosion prevention and treatment. Students are required to pass a written and/or performance test.

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Aircraft Technician

This course/module is designed to train aircraft maintenance technician apprentices on operational principles and theory of ground safety, aircraft systems and subsystems, component description and operation, aircraft ground handling, inspection, servicing procedures, and operation of aerospace ground equipment. The course provides aircraft familiarization to personnel that will be assigned to light aircraft (fighters, trainers, and attack). This course includes the following units of instruction: Familiarization and Aircraft Generalization.

Corrosion Control

This course/module is designed to train maintenance personnel in the fundamentals of corrosion control. Students will learn procedural requirements for the detection, prevention, and treatment of corrosion on aircraft and equipment. The training in this course includes: cleaning and inspecting aerospace equipment for corrosion, removal of corrosion by mechanical and chemical treatment, manufacture and application of aerospace markings, mixture and application of organic coatings and cleaning and storage of spray equipment.

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Avionics Technician Training 18 wks

5 / 10

Comprised of following courses/modules; Aircraft Electrical Fundamentals Technician, Avionics Communications/Navigation Technician, Avionics Instrument Technician, Aircraft Technician and Corrosion Control.

Aircraft Electrical

Fundamentals Technician

This course/module is designed to provide aircraft electrical fundamentals for the apprentice level student. The course is the foundation for aircraft electrical system maintainers. Upon completion of this course the student will have the knowledge to repair aircraft electrical systems. Students are introduced to aircraft safety, electrical theory and principles, equipment and maintenance, and operational procedures. Instruments, communication, navigation, and armament systems are excluded. This course includes the following blocks of instruction: Maintenance Basics, Direct Current (DC) Principles, Alternating Current (AC) Principles, Power Generation, Aircraft Systems I, and Aircraft Systems II.

Avionics Communications/

Navigation Technician

This course/module is designed to provide training on inspection and installation of avionics communications/navigation equipment, focusing on flight line operations. Upon completion, students will

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Avionics Instrument

identify theory of operation training on minimum performance tests. This course includes the following blocks of instruction: General Communication/Navigation Avionics Maintenance Practices, Basic Communication/Navigation Theory and Wire Harness Construction. Students are required to pass a written and/or performance test.

This course/module is designed to take students through all phases of various avionics instrument and flight control systems.

Additionally, students will learn identification and relationship of associated systems. Upon completion of this course, students will be able to state principles and facts for all systems and associated systems, and will have an in-depth understanding required to work on these systems. Students are required to pass a written and/or performance test at the end of certain course blocks prior to advancement to the next block of instruction. This course includes the following units of instruction: Maintenance Concepts, General Wire Maintenance, Quantity Indicating Systems, Barometric Flight Instruments, Engine Instrument Systems, Integrated Flight Instruments

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Systems, Compass Systems, and Advanced Systems.

This course/module is designed to train aircraft maintenance technician apprentices on operational principles and theory of ground safety, aircraft systems and subsystems, component description and operation, aircraft ground handling, inspection, servicing procedures, and operation of aerospace ground equipment. The course provides aircraft familiarization to students who will be assigned to light aircraft (fighters, trainers, and attack). This course includes the following units of instruction: Familiarization and Aircraft Generalization.

Corrosion Control

This course/module is designed to train maintenance personnel in the fundamentals of corrosion control. Students will learn procedural requirements for the detection, prevention, and treatment of corrosion on aircraft and equipment. The training in this course includes: cleaning and inspecting aerospace equipment for corrosion, removal of corrosion by mechanical and chemical treatment, manufacture and application of aerospace markings, mixture and application of organic coatings and cleaning and storage of spray equipment.

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<u>Course Name</u>	<u>Duration</u>	<u>Students/Class</u> <u>Min / Max</u>	<u>Course Description</u>
Engine Technician Training	15 wks	5 / 10	Comprised of following courses/modules; Turboprop Technician, PT-6 Engine and Variants Technician, Aircraft Technician and Corrosion Control.
Turboprop Technician			This course/module is designed to provide turboprop engine and propeller technicians with advanced operational theory and hands-on maintenance training in order to establish a solid craftsman foundation. Emphasis will be on the Pratt and Whitney PT6A-25 engine and Hamilton Standard propeller as a platform. Students will be given thorough technical instruction to evaluate conditions and make proper repair decisions of turboprop engine and propeller operating systems and subsystems. Students are required to pass a written and/or performance test at the end of certain blocks prior to advancement to the next block of instruction. This course includes the following blocks of instruction: Engine familiarization, engine system operation, engine maintenance, propeller familiarization, propeller operation and systems, and propeller maintenance. Students are required to pass a written and or performance test.

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PT-6 Engine and

Variants Technician

This course/module is designed to provide engine technicians advance operational theory, hands-on maintenance training, and establish a solid craftsman foundation with extensive operational knowledge and intermediate level maintenance skill. Upon completion of this course the student will be able to troubleshoot, analyze facts and draw conclusions related to the operation and workings of the PT6 engine and engine subsystems. This course includes the following units of instruction: PT6 engine familiarization, hot section inspection, and maintenance. This course to be presented via two blocks: Block I – PT6 Engine Familiarization and Block II – Engine Inspection and Maintenance.

Aircraft Technician

This course/module is designed to train aircraft maintenance technician apprentices on operational principles and theory of ground safety, aircraft systems and subsystems, component description and operation, aircraft ground handling, inspection, servicing procedures, and operation of aerospace ground equipment. The course provides aircraft familiarization to personnel that will be assigned to light aircraft (fighters, trainers, and attack). This course includes the following units of

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Corrosion Control

instruction: Familiarization and Aircraft Generalization.

This course/module is to be designed to train maintenance personnel in the fundamentals of corrosion control. Students will learn procedural requirements for the detection, prevention, and treatment of corrosion on aircraft and equipment. The training in this course includes: cleaning and inspecting aerospace equipment for corrosion, removal of corrosion by mechanical and chemical treatment, manufacture and application of aerospace markings, mixture and application of organic coatings and cleaning and storage of spray equipment.

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