



Alaska Air Carriers Association - PA31-350 Training Matrix

				Employee Name _____	
				Airframe and Power Plant No. _____	
General Training	Talk Through	Walk Through	Hands-on	Instructor Initial	Trainee Initial
1100 Placards and Markings					
How to find and Inspect Placards and Markings (Including Instrument Markings as per the POH)					
2100 Air Conditioning					
Ground Vent Fan(under the Spar Seats)					
Troubleshooting and Replacement					
Comb Blower Motor Troubleshooting & Replacement					
Heater Vent Air Blower (front of the heater can)					
Troubleshooting and Replacement					
Fuel Regulator AD and Replacement					
Heater Replacement					
Heater Servicing (spark plug, gap, sense line)					
Heater Decay Test					
Heater troubleshooting & adjustments (temp & overtemp)					
2200 Auto Flight					
Trim Switch Replacement					
Pitch Servo Replacement and Rigging					
Pitch Capstan Replacement					
Roll Servo Replacement and Rigging					
Trim Servo Replacement and Rigging					
Trim Capstan Replacement					



Alaska Air Carriers Association - PA31-350 Training Matrix

				Employee Name _____	
				Airframe and Power Plant No. _____	
General Training	Talk Through	Walk Through	Hands-on	Instructor Initial	Trainee Initial
2200 Communications					
Radio Procedures and Operation					
Removal and Installation of Radios					
GPS Chip Programming and Install					
GNS430/530/600/695 Programming and					
Intercom Troublshooting					
Audio Panel Replacement					
2400 Electrical Power					
Aircraft Battery Servicing and Battery Replacement					
Alternator Operation and Replacement					
Paralleling Alternators					
Voltage Regulator Replacement					
2500 Equipment and Furnishings					
Seat Inspection, Installation and Removal					
Shoulder Harness Reel Replacement					
Emergency Locator Transmitter Inspection per FAR					
ELT Transmitter Replacement (Battery also)					
ELT Remote Switch Replacement (Battery also)					
Battery Box Structure Inspection					
2600 Fire Protection					
Portable Fire Bottle Replacement					



Alaska Air Carriers Association - PA31-350 Training Matrix

				Employee Name _____	
				Airframe and Power Plant No. _____	
General Training	Talk Through	Walk Through	Hands-on	Instructor Initial	Trainee Initial
2700 Flight Controls					
Control Column Section Inspection					
Chain and Sprocket Inspection					
Aileron Inspection and Replacement					
Aileron Trim Tab Inspection					
Rudder Inspection and Replacement					
Rudder Trim Tab Inspection					
Elevator Inspection and Replacement					
Elevator Trim Tab Inspection					
Flap Inspection & Replacement (Including rollers/washers)					
Flap Motor Installation and Replacement					
Flap Transmission Inspection (per AD)					
Flap Transmission Replacement					
Control Surface Rigging					
Control Surface balancing procedures					
Checking/Adjusting of Cable Tensions					
2800 Fuel					
Fuel Tank Inspection and Replacement					
Fuel Tank Sender Unit Testing, Inspection and Replacement					
Fuel Strainer Maintenance					
Fuel Tank Drain Valve Replacement					
Electric Boost Pump Replacement (Low and High)					
Fuel Shutoff/Selector/Crossfeed Testing & Replacement					



Alaska Air Carriers Association - PA31-350 Training Matrix

				Employee Name _____	
				Airframe and Power Plant No. _____	
General Training	Talk Through	Walk Through	Hands-on	Instructor Initial	Trainee Initial
2800 Fuel - Continued					
Fuel Gauge Calibration					
Fuel Pressure Troubleshooting					
2900 Hydraulic Power					
Engine Driven Hydraulic Pump Testing & Replacement					
Hydraulic Filter Maintenance					
Hydraulic Handpump Maintenance					
Hydraulic Power Pack Troubleshooting & Replacement					
3300 Ice and Rain Protection					
Wing De-Ice Boot Testing and Replacement					
Horizontal Stabilizer Boot Testing & Replacement					
Vertical Stabilizer Boot Testing & Replacement					
Pitot/Static Maintenance					
Pilot's Heated Windshield Replacement					
Propeller Deice System Brush Block Testing & Replacement					
Brush Block Rebuilding					
De-Ice Timer Installation & Removal (both types)					
Ground De-Ice Machine Servicing & Herman Nelson Operation					
3100 Instruments					
Hobbs Meter Replacement/Paperwork Updates					
Clock Replacement (windup vs electric/digital)					



Alaska Air Carriers Association - PA31-350 Training Matrix

				Employee Name _____	
				Airframe and Power Plant No. _____	
General Training	Talk Through	Walk Through	Hands-on	Instructor Initial	Trainee Initial
3200 Landing Gear					
Main Landing Gear Inspection (dogbone clearance, uplock & downlock checks)					
Nose Landing Gear Inspection					
Gear Strut Rebuilding					
Uplock/Downlock Hook/Switch Adjustment & Replacement					
Landing Gear Door Inspection, Adjustment & Replacement					
Landing Gear Actuator Rebuilding & Replacement					
Landing Gear Door Actuator Rebuilding & Replacement					
Shimmy Dampner Rebuilding & Replacement					
Landing Gear Brake Pad/Rotor Inspection & Replacement					
Landing Gear Brake Caliper Inspection & Rebuilding					
Brake Master Cylinder Inspection & Replacement					
Wheel/Tire/Bearing Inspection & Replacement					
Gear Swing Operations (& Servicing Hydraulic Power Pack)					
3300 Lights					
Post Light Troubleshooting & Replacement					
No Smoking/Seatbelt/Exit/Reading Light Replacement					
Taxi/Landing Light Troubleshooting & Replacement					
Wing Light Replacement					
Strobe Power Pack Testing and Replacement					
Strobe/Recognition Light Replacement					
Beacon Light Replacement					



Alaska Air Carriers Association - PA31-350 Training Matrix

				Employee Name _____	
				Airframe and Power Plant No. _____	
General Training	Talk Through	Walk Through	Hands-on	Instructor Initial	Trainee Initial
3300 Lights - Continued					
Position/Nav Light Replacement					
3400 Navigation					
OAT Gauge Replacement					
Rate of Climb/Vetical Speed Indicator Replacement					
Airspeed Indicator Replacement					
Altimeter Replacement					
Stall Warning System Replacement (heated vs. non-heated)					
Attitude Gyro/Artificial Horizon Replacement					
Magnetic Compass Replacement					
Compass Swing and Compass Card/Use of Master Compass					
Turn & Bank/Rate of Turn/Turn Coordinator Replacement					
Flight Director/H.S.I. Replacement					
Marker Beacon Replacement					
Glidescope Replacement					
Transponder Replacement/Correlation Requirement					
ADF Replacement					
GPS Testing and Replacement					
GPS Mount Replacement					



Alaska Air Carriers Association - PA31-350 Training Matrix

				Employee Name _____	
				Airframe and Power Plant No. _____	
General Training	Talk Through	Walk Through	Hands-on	Instructor Initial	Trainee Initial
3500 Oxygen					
Aircraft O2 Servicing					
Aircraft O2 Inspection					
Personal Oxygen fill					
NOAA Unit Installation and Removal					
3600 Pneumatic System					
Gyro Pressure Gauge Testing and Replacement					
Pneumatic Inline Filter Replacement					
Pneumatic Inlet Filter Replacement					
Pneumatic Pump Testing and Replacement					
Garlock Seal Replacement					
Regulator Adjustment and Replacement					
5200 Doors					
Crew Door Inspection and Adjustment					
Passenger Door Inspection and Adjustment					
Emergency Exit Inspection and Installation					
Cargo Door Inspection and Adjustment					
Making/Adjusting Cable (passenger door)					
Door Warning System Troubleshooting					



Alaska Air Carriers Association - PA31-350 Training Matrix

Employee Name _____

Airframe and Power Plant No. _____

General Training	Talk Through	Walk Through	Hands-on	Instructor Initial	Trainee Initial
5300 Fuselage					
Antenna Inspection and Replacement					
Fuselage Fairing Repair/Replacement					
5400 Nacelles					
Nacelle Inspection and Repair					
Nacelle Baggage Door Inpsection & Actuator Replacement					
Nacelle Fairing Repair/Replacement					
5500 Stabilizer					
Elevator Balancing					
Rudder Balancing					
5600 Windows					
Flight Compartment Windows Inpsection & Replacement					
Passenger Compartment Inspection & Replacement					
Door Window Inspection and Replacement					
5700 Wings					
Wing Tip Lense Installation/Repair					
Sheet Metald Repair (Replacement of Rivits/Patching)					



Alaska Air Carriers Association - PA31-350 Training Matrix

				Employee Name _____	
				Airframe and Power Plant No. _____	
General Training	Talk Through	Walk Through	Hands-on	Instructor Initial	Trainee Initial
6100 Propeller					
Propeller Inspection					
Propeller Blade Dressing					
Propeller De-Ice Boot Testing and Troubleshooting					
Propeller De-Ice Boot Replacement					
Propeller Governor Rigging					
Propeller Governor Replacement					
7100 Powerplant					
Engine Cowling Inspection and Repair					
Cowl Flap System Adjustment					
Cowl Flap Motor Replacement					
Engine Air Baffling Inspection and Replacement/Repair					
Engine Mount Inspection					
7300 Engine Fuel and Control					
Sniffler Valve Testing and Replacement					
Fuel Servo Replacement					
Fuel Injector Nozzles Cleaning & Installation					
Engine Driven Fuel Pump Replacement					
Fuel Line SB342, as Revised					
Fuel Divider Replacement					
Fuel Flow/Pressure Troubleshooting					



Alaska Air Carriers Association - PA31-350 Training Matrix

Employee Name _____

Airframe and Power Plant No. _____

General Training	Talk Through	Walk Through	Hands-on	Instructor Initial	Trainee Initial
7400 Ignition					
Timing Magneto to Engine					
Magneto 500 Hour Inspection/Single Magneto Installation					
High Tension Lead Testing					
Spark Plug Cleaning and Installation					
7600 Engine Controls					
Mixture Control Rigging					
Throttle Control Rigging					
Propeller Control Rigging					
Rod End Replacement					
8600 Reciprocating Engine					
Cylinder Replacement					
Throughout Replacement					
Pushrod Seal Replacement					
Valve Rocker Inspection/Valve Lift Check					
Pushrod Replacement (different sizes, etc)					
Compression Testing					
Cylinder Overhaul					
Intake Tube Seal Replacement					
Oil Filter Replacement					
Oil Screen Maintenance					
Air Oil Separator Inspection and Replacement					
Engine Hose Kit Installation					



Alaska Air Carriers Association - PA31-350 Training Matrix

				Employee Name _____	
				Airframe and Power Plant No. _____	
General Training	Talk Through	Walk Through	Hands-on	Instructor Initial	Trainee Initial
Other Modifications					
Static Wick Inspection and Replacement					
Vortex Generator Inspection and Replacement					
Winterization Installation					
Winter Oil Cooler Boot Removal					
Other Topics					
Taxi Training Including Markings					
Pre and Post-Run Procedures					
Detailed Fuselage Inspection					
Detailed Engine Inspection					
Detailed Wing					
Detailed Landing Gear Inspection					
Detailed Cabin Inspection					
Routine Landing Gear					
Routine Fuselage					
Routine Wing					
Routine Empennage					
Routine Engine					