EAST COAST AERO CLUB

Marc Nathanson 20 March 2019

Student Pilot Pre-Solo Progress Check Form

STUDENT NAME___________________________________ DATE____/______/_____

INSTRUCTOR NAME_____________________________________

PROGRESS CHECK PILOT NAME_______________________

AIRCRAFT TYPE AND "N" NUMBER______________/N______

AIRFIELD (circle) BED OWD ASH

GROUND PRE-MISSION

Completed Pre-solo knowledge test **Date Completed and corrected________/________/_______**

Has student received spin training? **Yes or No**

Logbook Checked **Yes or No**

Citizenship in Logbook? **Yes or No**

TSA Approval required? **Yes or No**

Identity Check (Driver's License, Passport,

Birth Certificate) **Yes or No**

Citizenship Log Book entry **Yes or No**

NOTE: Write NO for tasks not obsereved.

Prog Check Instructors are to choose representative tasks considering time constraints. *NOTATE THOSE TASK "NOT OBSERVED" BY PLACING "NO" BY THE TASK.*

Note: The applicable Emergency Procedures (EP Quiz) shall be administered at the beginning of the test.

Allow 15 minutes for completion of this test.

Emergency Procedure Quiz

SAT / More Tng

East Coast Aero Club specific rules

GROUND ORAL

SAT / More Tng

☐ ☐ Parking Procedures

☐ ☐ Maintenance Issues

☐ ☐ Fuel requests

☐ ☐ Minimum **fuel** for flight

☐ ☐ Minimum **oil** for flight Local

☐ ☐ Cockpit covers and proper tie down knots

☐ ☐ Cleaning interior waste after flight (papers, water bottles, etc.)

☐ ☐ Watch the pens from marking interior

☐ ☐ Care of exterior (don't place items on painted surfaces to avoid scratches and don't use credit card to remove ice from any surface).

☐ ☐ Securing controls after flight

MASSPORT / OWD / ASH Security requirements

☐ ☐ Escort & Badge requirements and areas

Snow removal & Winter Operations

☐ ☐ Requesting Pre-heat

☐ ☐ Moving aircraft on slippery surfaces

☐ ☐ Taxiing on slippery surfaces

IMSAFE checklist

☐ ☐ Proper flight preparation procedures, including preflight planning and preparation

☐ ☐ Determining if ready for flight / Personal minimums

Aircraft systems

Powerplant:

☐ ☐ Horsepower

☐ ☐ Magnetos

☐ ☐ "P" Leads

☐ ☐ Number of spark plugs

☐ ☐ Max Oil Capacity & ECAC min oil

SAT / More Tng

- [ ] [ ] Carburetor Heat or Alternate Air-Purpose and checking for ice (Carb Heat)
- [ ] [ ] Procedures for starting in hot or cold weather
- [ ] [ ] Induction Fire on Start
- [ ] [ ] Emergency Descent

Electrical:

- [ ] [ ] Purpose of Master Switch and Alternator (if installed)
- [ ] [ ] Circuit breaker popped
- [ ] [ ] Electrical fire
- [ ] [ ] High or Low Ammeter or Discharging electrical system-can it be fixed?

Brakes, Taxiing, & Steering:

- [ ] [ ] Brake Check
- [ ] [ ] Use of brakes while taxiing and with a tailwind

Loss of elevator control:

- [ ] [ ] See C-172S POH If not in other aircraft POH, pitch is controlled with flaps (recommend second notch in Warriors), set power & trim to maintain level flight and use power to control pitch

Loss of airspeed indicator:

- [ ] [ ] Checking for "Airspeed Alive" on takeoff (how far down runway)
- [ ] [ ] Airspeed indicator fails after takeoff (Pitch & Power)

Aerodynamics

- [ ] [ ] "P" Factor
- [ ] [ ] Adverse Yaw
- [ ] [ ] Wash Out (Wing twist = why wing stalls at root first)
- [ ] [ ] Stalls
- [ ] [ ] Spin avoidance and recovery procedures (P A R E)
- [ ] [ ] Slips
- [ ] [ ] Cross wind correction vs crab landing

SAT / More Tng

Runway Incursion

- [ ] [ ] Required calls

☐ ☐ Required Lights

☐ ☐ Hot Spots

☐ ☐ What does “Roger” mean?

☐ ☐ Cover: Hold Short, Line up and Wait,

☐ ☐ **Ask ALL signage index cards**

Go-around procedures

SAT / More Tng

☐ ☐ When to execute a go-around

☐ ☐ How to execute a go-around –w- full flaps Vy vs. Vx

Collision avoidance:

☐ ☐ Proper Clearing before Stalls & Slow Flight

☐ ☐ Adjusting focus

☐ ☐ Pursuit Curves Lead, Lag, Pure (Lag preferred to miss traffic)

☐ ☐ Right of way rules

Windshear and wake turbulence avoidance:

☐ ☐ Avoidance

☐ ☐ Procedure when caught in Wake Turbulence

Navigation

☐ ☐ Navigating to/from practice area using visual references (Sectional Chart)

☐ ☐ Navigating using **VOR**

☐ ☐ Navigating using **GPS I**f installed

☐ ☐ GPS “Nearest” function

SAT / More Tng

Practice Area

☐ ☐ Practice area locations

☐ ☐ Working in vicinity of emergency landing fields

FLIGHT

- ☐ ☐ Pre Flight
- ☐ ☐ Taxiing & surface operations / Brake Check
- ☐ ☐ Runup
- ☐ ☐ Collision avoidance
- ☐ ☐ Normal Takeoff
- ☐ ☐ Straight and level flight, and turns in both directions
- ☐ ☐ Navigation to Practice Area. Using visual cues and heading. NO GPS (Use practice area student is familiar with)
- ☐ ☐ Climbs and climbing turns at specified airspeed(s)
- ☐ ☐ Flight at various airspeeds from cruise to slow flight = (Stall Speed +5 to 10kts)

To or from area

- ☐ ☐ No Flap
- ☐ ☐ 20° or ½ Flaps
- ☐ ☐ Full Flaps
- ☐ ☐ Power Off Stall Full Flaps Turning 15°-20° bank
- ☐ ☐ Power-On Stall Clean

Emergency procedures

- ☐ ☐ Circuit Breaker Fire While Airborne or Engine Fire (your choice)
- ☐ ☐ Simulated Engine Failure

Airport traffic pattern

SAT / More Tng

- ☐ ☐ Entry (45° preferred)
- ☐ ☐ Proper leg ground track
- ☐ ☐ Traffic awareness and avoidance
- ☐ ☐ Radio calls

Landings

- ☐ ☐ No Flap
- ☐ ☐ Full & intermediate Flap settings

☐ ☐ Slip to Landing

☐ ☐ Go Around

☐ ☐ Situational Awareness (SA)

Use of Checklist

☐ ☐ Flow vs. other methods

☐ ☐ Does student use checklist while taxiing?

☐ ☐ Does the student refer to the checklist to ensure it is properly completed?

☐ ☐ Single Pilot Cockpit Management (SPCM)

GIVE COPIES OF THIS COMPLETED FORM TO: **Marc Nathanson & Student's instructor**

Overall assessment:

__ **Student is recommended for solo at their instructors discretion (add notes for areas that were not so strong)**

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☐ **Student requires more training prior to solo: Progress Check Pilots Recommendation for training: (Comments required)**

COMMENTS:

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Use reverse side if necessary.