

**SECTION 3.03****SYLLABUS OF GYROPLANE FLIGHT TRAINING**

The following syllabus specifies the minimum standard that is required by ASRA Student Pilots. Qualifying numbers are used to indicate the degree of ability required for each individual item within a particular subject as follows:

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**CODES**

- 1 Assisted by the Instructor, ability to perform the activity correctly.
  - 2 Ability to perform the activity correctly without assistance, under carefully supervised conditions.
  - 3 Without instructional assistance or supervision, ability to perform the activity correctly and adjust actions to cope with emergencies.
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**SYLLABUS**

	Before Solo	Applicant for Pilot Cert
1. Gyroplane assembly	1	3
2. Preparation for Flight;		
a. Gyroplane documents	1	3
b. Pre-flight inspection	2	3
c. Starting and warm-up	2	3
d. Power check	2	3
3. Ground handling:		
a. Use of power	2	3
b. Control of direction	2	3
c. Use of brakes	2	3
d. Rotor ground handling techniques	2	3
e. Pre takeoff checks	2	3

	Before Solo	Applicant for Pilot Cert
4. Operation of Controls		
a. Primary effects of controls	2	3
b. Effect of slipstream and airspeed	2	3
c. Bank/rudder co-ordination	2	3
d. Further effects of rudder	2	3
e. Power/rudder co-ordination	2	3
f. Ancillary controls		
(1) Trim	2	3
(2) Engine controls	2	3
5. Straight and level flight:		
a. Control of attitude, altitude and direction	2	3
b. Maintenance of heading at different airspeeds	2	3
c. Instrument indications	2	3
d. Lookout and separation from other traffic	2	3
e. Recognition of and recovery from PIO	2	3
6. Climbing:		
a. At recommended power and airspeed	2	3
b. Maximum rate	2	3
c. Maximum angle	2	3
d. Engine handling	2	3
e. Instrument indications	2	3
f. Lookout and separation from other traffic	2	3

	Before Solo	Applicant for Pilot Cert
7. Descending:		
a. With power	2	3
b. Without power	2	3
c. Engine handling	2	3
d. Instrument indications	2	3
e. Lookout and separation from other traffic	2	3
8. Turning:		
a. Lookout and separation from other traffic	2	3
b. Level flight:	2	3
(1) Medium	2	3
(2) Steep	2	3
c. Descending turns:	2	3
(1) Medium	2	3
(2) Steep	2	3
d. Climbing turns	2	3
e. Instrument indications	2	3
9. Slow speed flight:		
a. Approach to and recovery from flight on the back side of the power curve	2	3
b. Avoidance of and recovery from flat spins (discussion only)	2	3
c. Engine handling	2	3
d. Instrument indications	2	3
e. Lookout and separation from other traffic	2	3

		Before Solo	Applicant for Pilot Cert
10.	Takeoff:		
	a. Into wind	2	3
	b. Cross wind	2	3
	c. Short takeoff	2	3
	d. Soft field takeoff	2	3
11.	Circuit planning:		
	a. Standard gyroplane circuit	2	3
	b. Joining a circuit	2	3
	c. Departing a circuit	2	3
	d. Lookout and separation from other traffic	2	3
12.	Approach and landing:		
	a. Approach:		
	(1) With power	2	3
	(2) Glide approach	2	3
	b. Landing:		
	(1) Normal	2	3
	(2) Cross wind	2	3
	(3) Short/soft field	2	3
	(4) Minimum ground roll	2	3
	c. Missed approach and go- around	2	3

	Before Solo	Applicant for Pilot Cert
13. Engine failures (simulated):		
a. During takeoff	2	3
b. In the circuit	2	3
c. During cruise, high and low level	2	3
d. Checks and procedures	2	3
14. Precautionary search and landing	2	3
15. Pre-first circuit requirements:		
A student shall not make his first solo circuit unless he has passed a written examination on Flight Rules and Procedures. The examination will cover the subjects detailed in Section 3.04 of this Manual.		
16. Pre-pilot certificate flight test requirements:		
A student shall not be flight tested for an ASRA Pilot Certificate until he has passed a written examination on Gyroplane Basic Aeronautical Knowledge. The examination will cover the subjects detailed in Section 3.04 of this Manual.		
17. Flight Planning:	Before solo navigation flight	Applicant for cross country endorsement
Preparation for flight: Pilot, aircraft, & equipment	2	3
Interpretation and use of weather charts and forecasts	1	3
Interpretation and use of aeronautical publications, documents and charts	2	3
Basic navigation computer skills	2	3
Flight Notification	1	3

	Before solo navigation flight	Applicant for cross country endorsement
17. Flight Planning: (Continued)		
Gyroplane weight and balance management	2	3
Flight plan use including:		
Cruise level selection	2	3
Track, distance, heading, groundspeed and time interval calculations	2	3
Fuel management including fuel reserve calculations	2	3
18. Navigation:		
Map reading	2	3
Compass use and errors	2	3
Medium and low level navigation	2	3
Flight log management	2	3
Diversion procedure	2	3
Lost procedure	2	3
Air traffic procedures outside controlled airspace	2	3