



# APPI TANDEM PRO-WORKSHOP

## Oludeniz Turkey 2019

### Evaluation and certification course for experienced tandem pilots

**Place:** Oludeniz Turkey

**Date:** **November 26<sup>th</sup> - December 1st** (possible until 3<sup>rd</sup> in case of weather issues)

**Master Instructor APPI:** Shahin Fallah Iran

**Language:** Persian / Turkish

**Practical flying area:** Oludeniz Turkey ( in the case of bad weather condition for practical exam we will move to pamukkale)

**Planning: 6 days** (subject to modifications)

November 26<sup>th</sup> - 30<sup>th</sup> : Theory course

December 1st practical and theory exam

**Fees:**

**Workshop part I open to any Pilot: 200 Euros** 4 days theory

**Workshop part I+II tandem: 350 Euros** 5 days theory  
+1 day practical  
& theory exam

**Included:**

Organization of workshop and courses, instructional material, written and electronic documents.

**Not included:**

Accommodation, food, transportation.

**Registration, infos and options for accommodation:**

contact Artoosh Ghaforian [artooshghtr@gmail.com](mailto:artooshghtr@gmail.com) Tel.: +90 539 586 13 37

**To apply:**

1 if you are not APPI member yet, register first in APPI and get APPI number

<https://appifly.org/?Equivalence-form>

2 fill the following questionnaire providing your APPI number

<https://forms.gle/fS8A2LEXBP22Vwxf6>



# Pro-Workshop part I

## General theory course

**Aimed at:** any pilot

**Duration:** 4 days

**Objectives:** theoretical elements for paragliding pilots.

Each course proposes important and advanced items, as well as an updating with recent knowledge. This is not a teaching of the basics of paragliding.

**Program :** each day meeting at 7h45, course from 8h to 13h and from 14h to 19h

**References:**

- tandem proworkshop info
- APPI solo\_pilot\_logbook 2.0
- APPI paragliding\_training\_organization 2.3
- U1\_U2\_U3 resume

**You will need:** a notebook, a pen, a calculating machine, a ruler, a memory stick.

**Extracts of contents:**

Unit 1:

**GEAR:**

Ageing: care and control of a paraglider components: -cloth -lines load and resistance control -method for lines length control, airworthiness criteria, introduction to adjustment –links (karabiners...) -accessories

Harness and reserve: different kind of settings, known problems, situations and appropriate technique, ageing...

EN certification. Indicated weight range... **practice:** control of gliders trim, reserves check.

Unit 2:

**AERODYNAMICS AND FLIGHT MECHANICS**

causes of pressure point migration and influence on stability, consequences on piloting ...

**PILOTING:**

Piloting techniques from classic to modern gliders; aerodynamic and pendulum movements, spiral instability, incidents control...

Unit 3:

**Meteorology and aerology:** global and local forecasting tools, stability/instability, aerological traps and dangerous situations

**Psychological aspects:** human factors, security and performance, stress management techniques

**Safety:** risk, risk homeostasis, how to improve safety, how to react in case of accident...

**Performance flying:** improving performance, glider's polar, flying fast, transition strategies, drifts...

**Environment, Airspaces and flying rules, Authorities regulating paragliding / APPI**



## PRO-Workshop part I+II APPI tandem pilot course + examination

### **Aimed at:**

- \*To pretend to APPI non-commercial tandem pilot: Pilots with a minimum experience of -2 years paragliding activity - 50 documented tandem flights.
- \*To pretend to APPI pro tandem pilot: Pilots with a minimum experience of -3 years paragliding activity –one year tandem operating - 150 documented tandem flights.
- \*To apply, pilots must be major of age and owner of a first aid certificate.

*The certification for APPI pilot tandem requires to be owner of an APPI advanced SIV certification. We highly recommend the candidates to attend a SIV course before the pro-workshop with an APPI SIV instructor. They may also provide before the workshop a video of the 5 mandatory maneuvers (see pro-workshops page). This video will be examined by the master in charge and might be accepted or rejected if they do not correspond to APPI piloting standards. The master in charge might ask for a solo demo flight prior to any tandem flight (see pro-workshops page).*

### **Duration: 7 days**

### **Objectives:**

To obtain an APPI tandem pilot validation

### **Documents and references:**

*documents mentioned above plus:*

- APPI tandem-routine 1807
- APPI tandem evaluation form 1807
- Evaluation questions
- U4 resume

**Program: each day** meeting at 7h45, course from 8h to13h and from 14h to19h

### **Extracts of contents:**

This workshop includes contents of Pro-Workshop part I (units 1 to 3). Additional units are:

#### Unit 4:

**Legal aspects of tandem flying:** responsibilities (moral, civil, penal). Obligations (means and result), national regulation, insurances

### **Practical items:**

Choosing and taking care of your working tools, accessories choice (spreaders...)

Relationship with the passenger/client

Flying the tandem: attitude, psychology, briefing, preparation techniques, take-off techniques, physiological issues, assistance managing, piloting techniques, approaches, specific public...

Development of pilot's personal tandem procedure

### **Specifics of tandem flight mechanics**

Wing loading, weight factors, trimmers...



### Training day: for tandem exam

Training for the practical tandem exam. The instructors will be available at take-off and landing to comment safety procedures, take off technique, approaches and landing.

### Exam unit 1: Theoretical exam

#### **theoretical check:**

upon examiners decision, the theoretical check might be performed using the following procedure

-Online exam using the APPI exam tool 50 questions “tandem” 80% success (participants might train prior workshop using the APPI exam training tool)

-Online exam using the APPI exam tool 100 questions on pro-workshop contents 60% success

-4 to 6 questions to develop on whiteboard covering units 1 to 4. Knowledge rate: minimum 2,5/5

### Exam unit 2: Tandem practical exam

Respect of procedures will be mandatory. Take off technique, timed maneuvers, approximation and accuracy.

Minimum 2 successful flights as described in tandem Pro-workshop info, a third flight possible.

Evaluation document: (APPI tandem evaluation form 1807)

#### **You will need to bring the following material:**

- a notebook, a pen, memory stick, computer is recommended, ruler 30 cm metric.
- Solo glider in good shape, harness equipped with reserve
- Tandem glider, harnesses, tandem reserve EN certified for the max load of the tandem, helmets. Lines scheme and lines plan with the lines length of the tandem (if not available in the manual, ask the manufacturer)
- VHF 2m

***! Gear in bad shape will not be accepted!***

#### **Documents recommended to provide prior workshop**

Video of tandem flight featuring

- Safety procedures according to APPI (cf APPI tandem-routine 1807), takeoff approach and landing.
- Timed maneuvers of the APPI exam (720° and figure 8) (cf tandem proworkshop info)

Video of the 5 piloting maneuvers if not owner of APPI advanced SIV certification

-Spiral dive damped exit

-Pitch control

-Stall, back fly, exit

-Spin 360 degrees mini., exit

-Maintained asymmetrical collapse, autorotation SAT type, exit

The footage will be made from two cameras, one on the ground, the other one on the knee of the foot. And edit of that type will be provided: <https://youtu.be/aYkBDtdm284>