U-FLY Paper, Inc.

Title: U-Fly Paper, Inc. Paper Airplane 01 Job Instruction: UF-PA-01 Version: 1.0

1.0 PURPOSE & OBJECTIVES

The purpose of this Training Module is to instruct employees how to build and test U-Fly's paper airplane, model 01.

After completing this training you will be able to:

- o Build the paper airplane
- Test the paper airplane

2.0 KEY TERMS

Term	Definition
Aerodynamics	The branch of mechanics that deals with the motion of air and other gases and with the effects of such motion on bodies in the medium.
Leading Edge	The front part of an airplane's wings that face towards the direction of flight.
Pivot Point	Point at which the paper is folded.

3.0 REQUIRED SAFETY EQUIPMANT and MATERIALS

	Safety Equipment	Materials
	N/A	1ea - Piece of 8.5" x 11" paper
4.0	PRERQUISITES None	<u> </u>

5.0 PROCEDURE



TASK	PICTURE	KEY POINTS	REASONS
 Fold a standard piece of paper in half vertically and crease. 		Make sure edges are even and crease has been made with firm pressure	This helps to assure perfect alignment of edges.
 Unfold and position paper so that the crease is vertical and fold the top two outer corners inwards so that they meet along the middle crease. 		Corners should not overlap in the center	Improper folding may cause flight instability.
3. Fold the point made in the previous step down using bottom edges of previous folds as the pivot point.		Flaps should be tucked under this fold and tip should be aligned with vertical crease. Paper should look somewhat like the back of an envelope.	Secures initial folds under paper.

TASK	PICTURE	KEY POINTS	REASONS
 Fold the two top corners created in the previous step to the center crease. 		Points should be about 2/3 of the way down the center crease flap.	Allows room to secure points.
5. Fold up the point that has been covered in the previous step so that it secures the flaps against the crease.		Point should be brought up far enough to adequately secure the 2 flaps.	This will secure two flaps and aid in aerodynamics
6. Fold the paper in half (along the vertical crease you created in Step 1) so that all the folds made in the previous steps are facing outwards.		Assure folds are facing outward. A small triangular fold should be visible along the bottom of the plane.	Helps to secure folds and prepares development of wings.

TASK	PICTURE	KEY POINTS	REASONS
7. Fold both side flaps down to the bottom so that the wings are perfectly aligned with the bottom of the airplane.		Assure that wings are perfectly aligned with bottom of airplane	This will enable the wings to operate at full capacity air speed
8. Unfold the wings slightly so that they are perpendicular to the body of the airplane and form a flat surface next to each other.		Wings should be perfectly flat	This will aid in optimal flying distance
9. Test your airplane. Start with a gentle toss to see how your plane glides through the air. Experiment with more aggressive throws to see how high and far your plane will travel.		Assure area is clear when experimenting with throws	You don't want to hit something or someone with your airplane.

Trainee Information		
Name (Print):	Employee ID:	
Training Phase:	Training Module Title: U-Fly, Inc. Paper Airplane 01	
	Document Number and version: UF-01-PA-01, V 1.0	

Step	Step Description		Performed Correctly?		
Otep	otep bescription	Yes	No		
1	Fold a standard piece of in half vertically and crease.				
2	Fold the top two outer corners inwards so that they meet along the middle crease.				
3	Fold the point made in the previous step down to the crease so that the flaps are tucked under this fold.				
4	Fold the two top corners created in the previous step to the center crease so that the points are about 2/3 of the way down the center crease flap.				
5	Fold up the point that has been covered in the previous step so that it secures the flaps against the crease.				
6	Fold the paper in half along the vertical crease previously created so that all the folds are facing outwards.				
7	Fold both side flaps down to the bottom so that the wings are perfectly aligned with the bottom of the airplane.				
8	Unfold the wings so that they are perpendicular to the body of the airplane and form a flat surface next to each other.				
9	Test airplane. Did airplane fly?				
Comments					
□N/A					
Did the Tra	ainee pass?]Yes [No		

Trainer and Trainee Verification		
Trainer	Signature	Date
·		
Trainee	Signature	Date