#### **Acronyms and Common Terms**

Acronyms and Common Terms	1
Actorytis and common terms	
The coldest temperature at which deicing and anti-icing fluids have the acceptable characteristics to flow off aircraft surfaces during take-off is:	
°Brix	
Aerodynamic acceptance	
Holdover time	
Freeze point	
Any surface of an aircraft that affects its ability to fly is a:	
Representative surface	
Critical surface	
Tactile surface	
Ground icing surface	
A refractometer is an instrument used to determine the freeze po	oint of a fluid.
True	
False	

#### Contamination

Review - Contamination
Although all of these contaminants present danger to our aircraft, identify the contaminant that is one of the most difficult to identify and remove and presents the greatest danger for damaging the aircraft.
Rime ice
Cold soaked (wing) fuel frost
Active frost
Light snow
Clear ice
Rain
What surface contamination can be described as a milky white and opaque granular deposit which may form on the leading edge of the wing?
Rime ice
Hoarfrost
Frost
Clear ice
Which of the following is one of the most dangerous weather conditions that can ground an aircraft?
Oriving rain
Light snow
Freezing rain
Freezing fog

#### **Boeing Aircraft Familiarization**

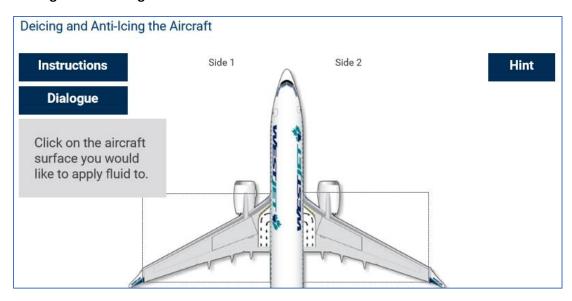
Review – Boeing Aircraft Familiarization	
Which of the following are critical surfaces? Select all that apply.	
Wings	
Fuselage	
✓ Vertical Stabilizer	
Spoilers	
Rudder	
Radome	
Angle of attack vane	
Engine cowlings should be deiced with Type I fluid.	
True	
True	d to critical sensing
True False  What is the recommended technique for applying Type I deice fluid	d to critical sensing
True False What is the recommended technique for applying Type I deice fluid devices?	d to critical sensing
True False  What is the recommended technique for applying Type I deice fluid devices?  Place covers over the devices before deicing	d to critical sensing

The Pilot-in-Command (captain) must be notified when:	
Landing gear have been deiced with Type I fluid	
Critical sensing devices have been deiced with Type I fluid	
Fluid is accidentally sprayed into the APU inlet	
All of the above	
None of the above	
Fill in the blank. Name one of the three axes of motion.	
type your text here	
Answers may include (not case sensitive):	
Roll     Role	
Pitch	
Yaw	
<ul> <li>Longitudinal</li> </ul>	
• Lateral	
• Vertical	
When deicing the windscreens, you must avoid spraying them dire possibility of thermal shock cracking the glass.	ectly since there is a
True	
False	

Which of the following critical surfaces on the wing affects/controls the pitch of an aircraft?
Spoilers
Ailerons
Elevators
Flaps
Q400 Aircraft Familiarization
Review – Q400 Aircraft Familiarization
When spraying props from the bucket, why must the blades be sprayed from the side with the blades above the spinner?
To avoid spraying fluid into the engine inlet
To avoid getting fluid on the cabin windows
To use fluid efficiently by ensuring any overspray helps with wing deicing
To avoid accidentally spraying personnel on the ground
Note: "overspray" is an acceptable term.
The representative surface on the Q400 is:
The outboard roll spoiler on the #1 side
The leading edge of the #2 wing
The #1 wing
The area on the wing between the engine and the fuselage

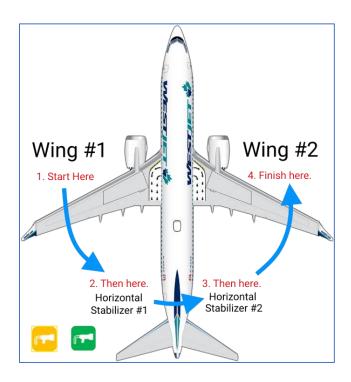
Select the FALSE statement about the Q400 fuselage strake.	
The fuselage strake adds lateral stability while the aircraft is in flight.	
The fuselage strake acts as a vortex generator.	
The fuselage strake must be anti-iced with Type III or IV fluid.	
The fuselage strake is a critical surface.	
The PIC only needs to be notified if a static wick is broken off during spraying	n not if it was
missing beforehand.	g, not ii it was
True	
False	
Spraying fluid into the APU inlet must only be reported to the PIC if it caus	ses damage
opraying naila into income a macrimati and a report of the control	oc camage.
True	
False	
Spraying fluid into the air pack intake or exhaust may cause smelly fumes aircraft cabin.	to enter the
True	
False	

#### **Deicing and Anti-Icing the Aircraft**



In this exercise, learners must demonstrate they know which fluid (orange or green) to apply to the correct wing or horizontal stabilizer (tail wing). These must also be applied in the correct order.

#### Follow this pattern:



#### 1. Click Wing #1

- a. Click the yellow nozzle in the lower left corner
- b. Click Wing #1 again
- c. Click the green nozzle

- 2. Click Horizontal Stabilizer #1 (the back tail wing on the left side)
  - a. Click the yellow nozzle
  - b. Click Horizontal Stabilizer #1 again
  - c. Click the green nozzle
- 3. Click Horizontal Stabilizer #2 (the back tail wing on the left side)
  - a. Click the yellow nozzle
  - b. Click Horizontal Stabilizer #2 again
  - c. Click the green nozzle
- 4. Click Wing #2
  - a. Click the yellow nozzle
  - b. Click Wing #2 again
  - c. Click the green nozzle
- 5. Collect a fabulous prize!