



الاتحاد  
ETIHAD  
AIRWAYS  
ENGINEERING

# Introductory Overview



EFTA\_R1\_00015988

## OUR FLEET

Etihad Airways' fleet is one of the youngest in the world and, as at 31 Aug 2016, comprised 123 passenger and cargo aircraft:

	AIRCRAFT TYPE	CURRENT FLEET	AIRCRAFT DELIVERIES 2016 - 2025
	Airbus A320 - Family	35	26
	Airbus A330 - Family	25	-
	Airbus A340 - Family	8	-
	Airbus A350	-	62
	Airbus A380	8	2
	Boeing 787	9	62
	Boeing 777 - Family	28	25
	Airbus A330 - 200F (Freighter)	4	1
	Boeing 777 - 200F (Freighter)	5	1
	Boeing 747 - Freighter Family	1	-
	<b>TOTAL</b>	<b>123</b>	<b>179</b>

# 10

AIRCRAFT  
TO JOIN THE  
FLEET IN 2016

# LEVERAGE GROUP SYNERGIES

## OUR EQUITY PARTNERS

TOTAL COMBINED NETWORK 720 119.1M 343\*

\* Combined unique destinations with Etihad Airways

600 TOTAL COMBINED NETWORK DESTINATIONS

## OUR CODESHARE PARTNERS

Our codeshares give us a combined passenger and cargo network of nearly 600 destinations, and over 25,200 flights per week, more than any other Middle Eastern airline. **Etihad Airways currently has 197 interline relationships and 51 codeshare partnerships in place with:**

- Aegean Airlines
- Aerolineas Argentinas
- Aer Lingus
- Air Astana
- airBaltic
- airberlin
- Air Canada
- Air Europa
- Air France
- Air Malta
- Air New Zealand
- AirSERBIA
- Air Seychelles
- Aitalia
- All Nippon Airways
- American Airlines
- Asiana Airlines
- Avianca Airways
- Avianca Brazil
- Bangkok Airways
- Belgavia (Belarusian Airlines)
- SN Brussels Airlines
- China Eastern Airlines
- Czech Airlines
- Darwin Airline (Etihad Regional)
- Flybe
- Garuda Indonesia
- Gol Linhas Aéreas Inteligentes
- Hainan Airlines
- Hong Kong Airlines
- Jet Airways
- JetBlue Airways
- Kenya Airways
- KLM Royal Dutch
- Korean Air Lines
- Malaysia Airlines
- Middle East Airlines
- NAS Air (Ilynas)
- Niki (flyniki)
- Pakistan International Airlines
- Philippine Airlines
- Royal Air Maroc
- SAS
- Siberia Airlines (S7 Airlines)
- SNCF
- South African Airways
- SriLankan Airlines
- TAP Portugal
- Turkish Airlines
- Vietnam Airlines
- Virgin Australia



\*\* Continued membership with Etihad Loyalty Program, Etihad Guest, 3.5 million members.

**President & CEO  
Etihad Aviation Group  
James Hogan**

**PCEO Office**

- General Counsel
- Executive Affairs
- Corporate & International Affairs

**Group Chief Financial Officer  
James Rigney**

**Group Chief People & Performance Officer  
Ray Gammell**

**Group Chief Strategy & Planning Officer  
Kevin Knight**

**Group Chief Technology & Innovation Officer  
Robert Webb**

Cargo

**CEO Etihad Airways  
Peter Baumgartner**

**CEO Hala Group  
Darren Peisley (acting)**

**CEO Etihad Engineering  
Jeff Wilkinson**

**CEO Airline Equity Partners  
Bruno Matheu**

Operations	Sales
Aviation Security	Airline Marketing & Guest Experience
Digital Strategy & Innovation	EAS Catering
Airport Services	
EAS Ground	

Group Brand	
Global Loyalty Company	
Etihad Wholesale	
Distribution	

Airframe Services	Design Engineering
Component Services	Technical Training
Supply Chain Management	Technical Sales



الإتجاه  
**ETIHAD**  
AIRWAYS  
ENGINEERING

- Heavy & Major Structural, Cabin Modifications, Component Services, Supply Chain, Design & Engineering & Technical Training
- More than 200,000 square meters of apron & hangars
- 9 heavy widebody lines, incl 3 A380 bays with paint facilities
- Continuously evolving



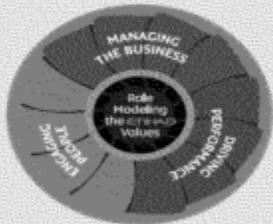
EFTA\_R1\_00015992

# Continuously evolving...

Investments in new facilities...



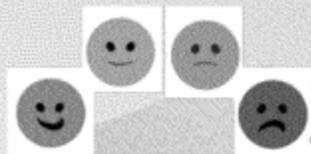
People engagement...



Leadership training rolled out and 1200 attendees at Winning Behaviours road show – supporting Performance Management system



- Employee engagement survey tools introduced
- People & Information points established
- Weekly Employee briefings



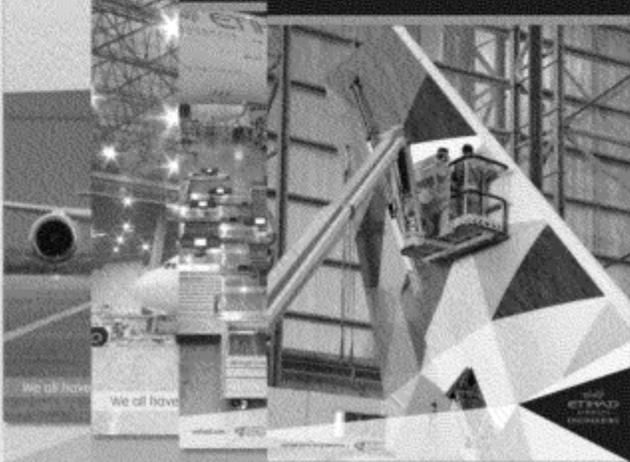
EFTA\_R1\_00015993

# Committed to Quality & Continuous Improvement

## Driving Efficiency & Safety

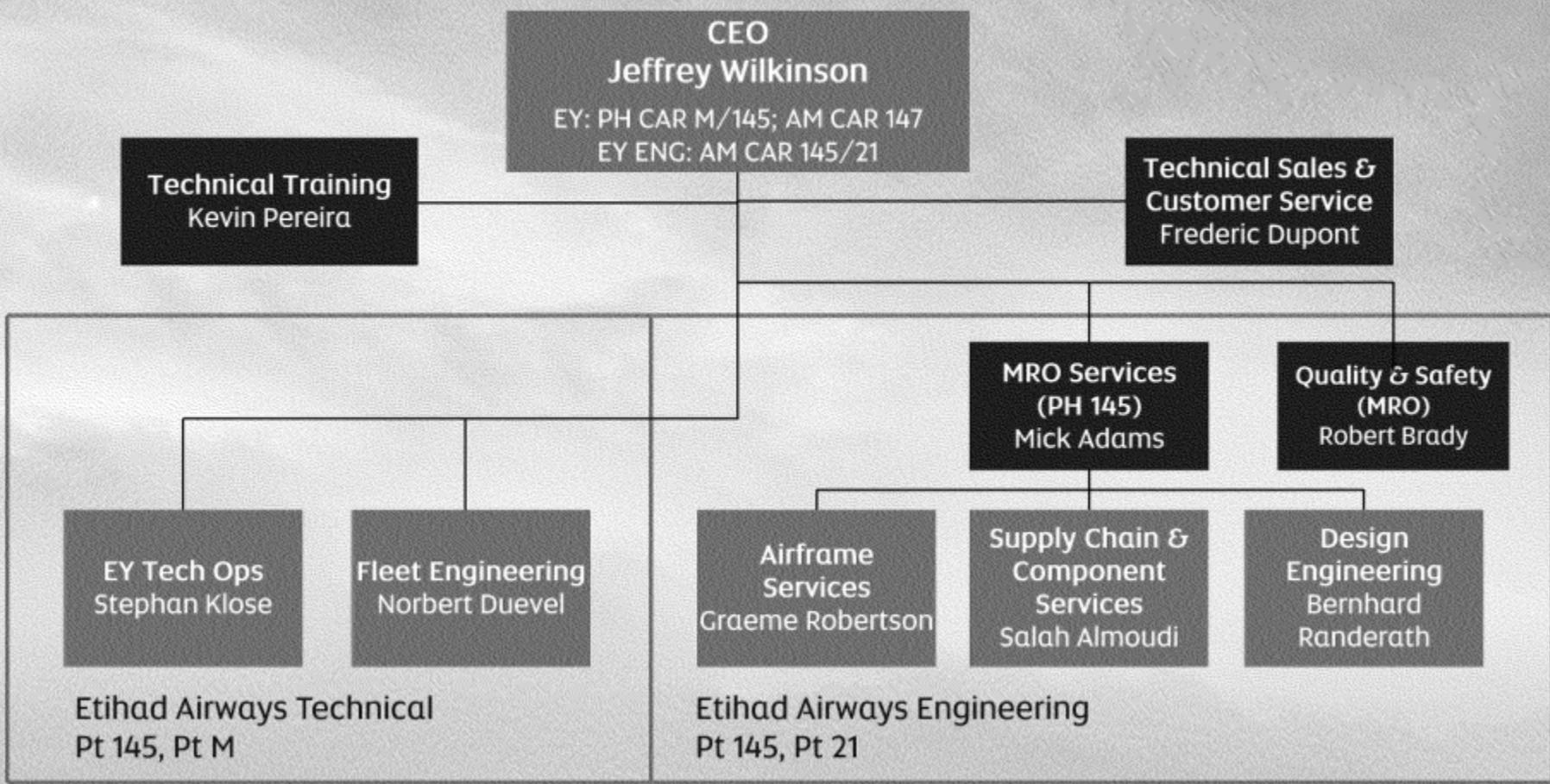
- Fully automated solution introduced eradicated all personal tools in the facility
- Aircraft zonal and overarching visibility to all tools issued
- Managing over 30,000 tools with live feed into Centralized Planning & Control

SAF SAF SAF SAFETY MATTERS

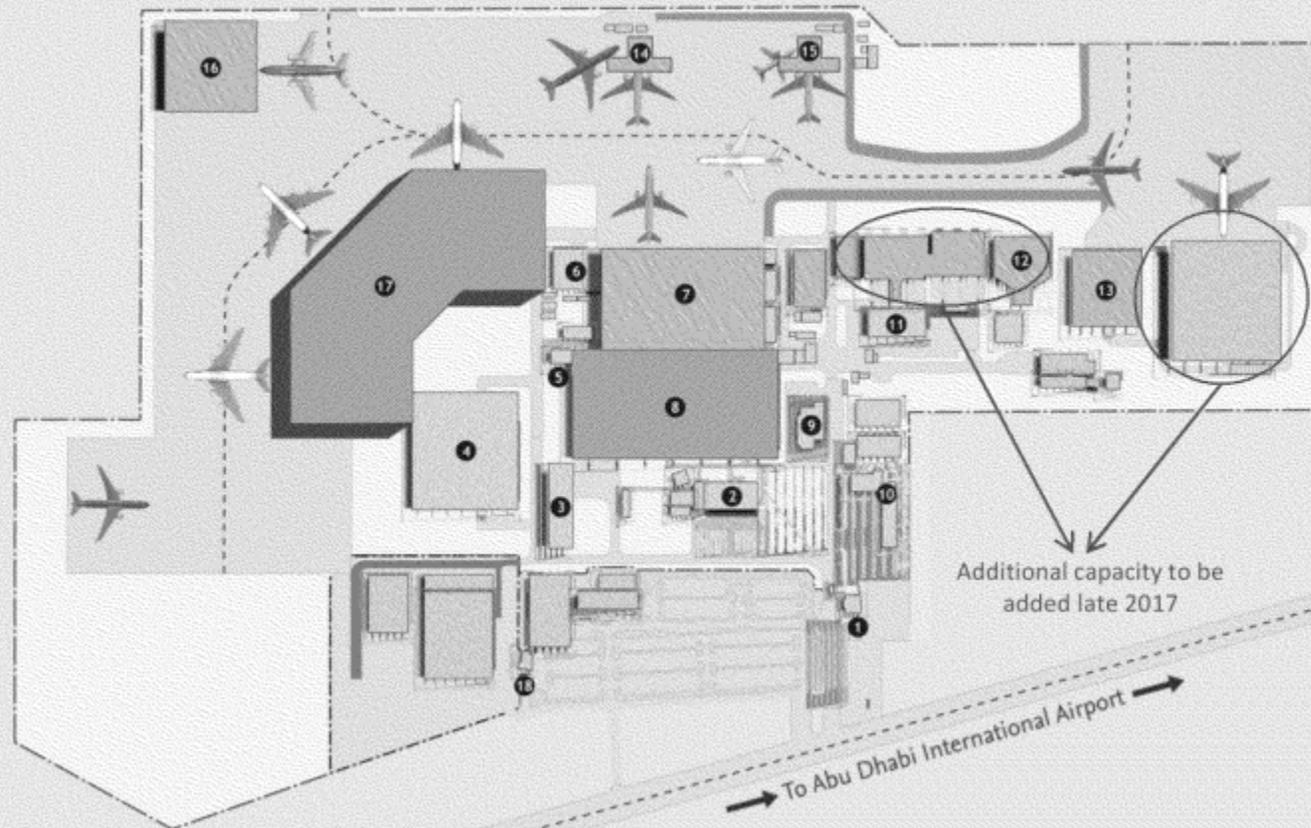


EFTA\_R1\_00015994

# One Team, One Mission...



# OUR FACILITIES



## LEGEND:

1. Main Gate & Reception
2. Executive Building
3. Wheels & Brakes
4. Main Store
5. Engineering
6. Engine Production Shop
7. Hangar 1
8. Support Services
9. Cafeteria
10. Training Centre
11. Facilities
12. Paint Hangar
13. Paint Hangar
14. Bay 5
15. Bay 6
16. New Paint Hangar
17. Hangar 6
18. Deliveries Gate

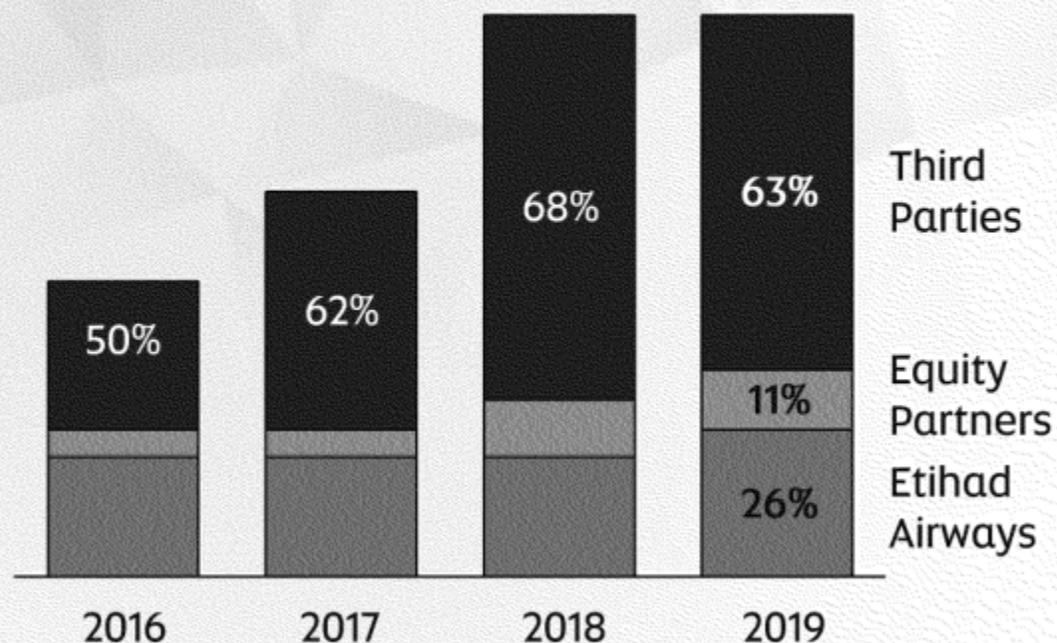
EFTA\_R1\_00015996

## Significant growth in MRO demand

The majority of our work is NOT Etihad based

Third party business is significant and growing

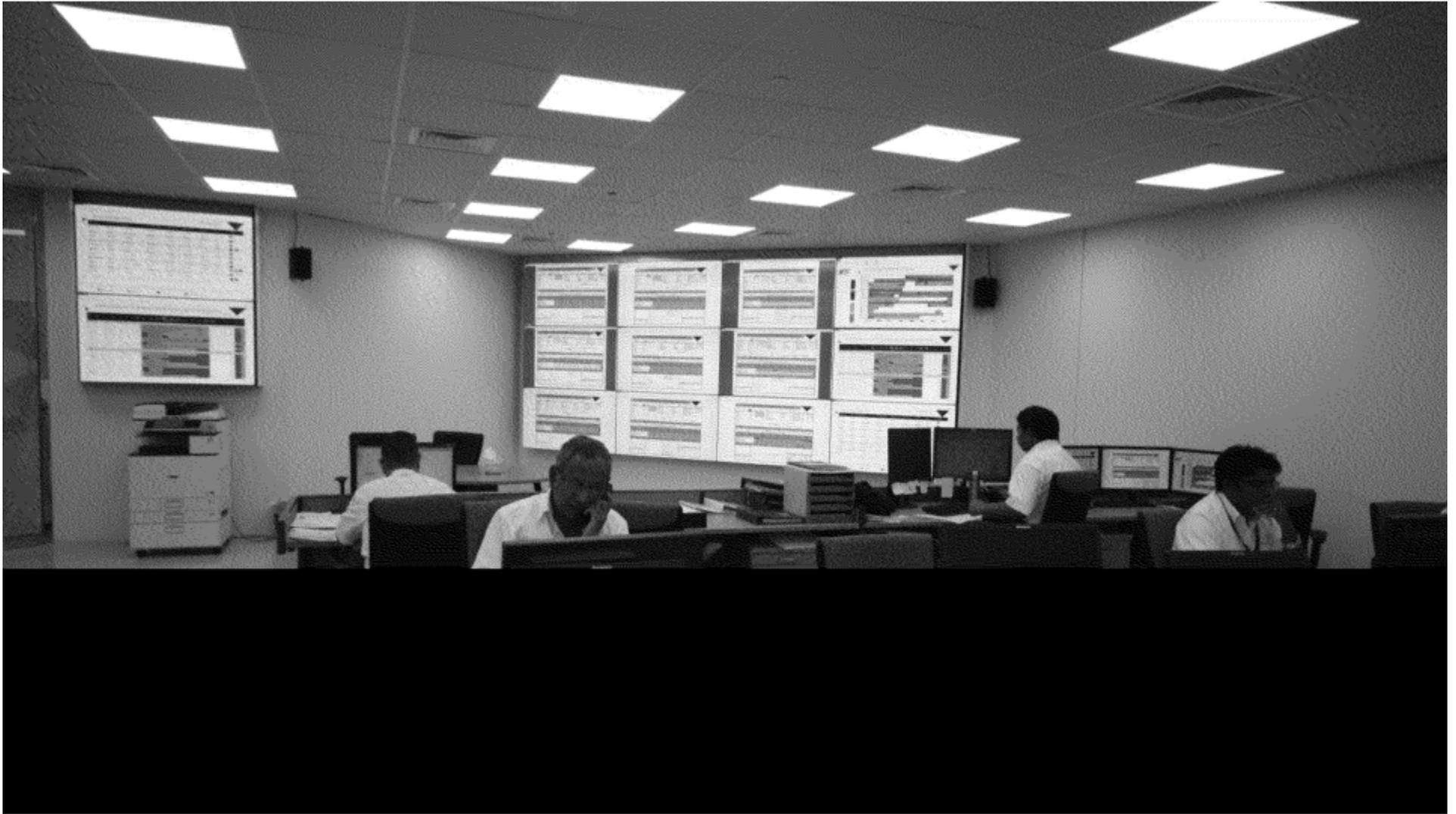
Forecast Hangar Man Hours



EFTA\_R1\_00015997

# Airframe Services

- Heavy / light maintenance:
  - Airbus: A300, A320, A330, A340, A380, A350 *planned*
  - Boeing: B757, B767, B777, B737NG, B787,
- Diverse modification services including IFE upgrade/new installation, cabin reconfiguration including Trim & Finish, winglet installation, vertical fin attachment modifications...
- Full Rebranding campaigns (interior & exterior), A380 Major Mods...
- 2 aircraft painting facilities with capacity of up to B777/A340 aircraft types
- Centralized Planning and Control (CPAC) drives proactive and focused production / resource planning with no last minute surprises



EFTA\_R1\_00015999

EFTA01735167

Our Capabilities:

- ‡ Vacuum press machine for side wall recovery
- ‡ Plastic Repairs
- ‡ New Seats Covers Y, J, F classes
- ‡ Interior decals
- ‡ Cockpit seats recovery
- ‡ New carpets installation
- ‡ Upholstery for leather recovery
- ‡ Laundry technical wash
- ‡ 120+ staff with impressive care for details
- ‡ On-site Flammability  
Test Lab in collaboration  
with Lantal

# Engineering Services: Maintenance & Modification Packages



DOA Certificate EASA.21J.163  
3<sup>rd</sup> oldest DOA (of 15) outside Europe and  
the only with major mod approval in ME.

We optimize ground time by combining modification packages with scheduled maintenance, additional Service Bulletins (SBs), Airworthiness Directives (ADs) and out of phase checks.

#### Cabin Modification

- LOPAs
- In-flight entertainment (IFE)
- Cabin monuments
- Cabin systems
- Program management
- Kitting and logistics management
- Design certification services

#### Aerostructures packages

- Winglet installation
- Nacelle composite repairs
- Thrust reverser composite repairs
- Aircraft recovery and rebuild
- Skin replacement
- Corrosion repairs
- Fuel tank inerting
- VIP interior installation

#### Avionics and electrical

- Airbus ALNA V2 connectivity installation
- Panasonic Global Communication Systems (GCS)
- Electronic flight bag
- E-enabling for new generation aircraft
- Wireless quick access recorder (WQAR)
- Traffic collision avoidance system (TCAS v7.1)

#### Scheduled and Unscheduled maintenance

- Line maintenance
- Light maintenance
- Heavy maintenance
- Out of phase checks
- Complex repairs
- Painting and livery
- Component repair cycle management

EFTA\_R1\_00016001

- MRO EFFICIENCIES
- HEALTH PROGNOSIS
- PARTS PRODUCTION
- DEVELOPMENT & TEST
- INTELLIGENT CABIN
- CONSULTING SERVICES

- 
- 
- 
- 
-

# Technical Training

- Committed to become Center of Excellence for all recognized engineering training on Airbus & Boeing platforms, including A380 and B787 and future plans for B777X and A350
  - Boeing 787 DTT Suite (*Desktop Trainer*)
  - Airbus A380 ACT (*Airbus Competence Trainer*)
- GCAA 147 approved training organization with increasing scope
- EASA 147 approved (787) with increasing scope
- Conduct all 145 in house courses.
- Graduate Engineer Trainee programs available for Emiratis, Omanis, Serbian, Seychellois and Italians.



*In 2015: Close of 900 courses held with more than 10,000 students trained*

EFTA\_R1\_00016003

# One team, One Mission: Providing industry leading aircraft maintenance and engineering solutions.

Ownership structure drives synergies and supports path to excellence

Airline mentality committed to delivering world class Customers' experience

Strategically located in a high growth geographic area connecting East to West

Over 85,000 square meters of state of the art infrastructures and growing capabilities led by an international and multi-disciplined experienced workforce

Comprehensive MRO offering through flexible and customized service solutions

EFTA\_R1\_00016004

# RECENT ACHIEVEMENTS

- Delivered A380 Door Mod. Prog. (28 a/c) one month ahead of time w/ zero Quality issues
- Performed 1<sup>st</sup> 787 C-check in the ME region, and the 1<sup>st</sup> Full Strip & repaint 787 in the World.
- ME MRO Service Provider of the Year 2016 & 2015 Aviation Business - ITP)
- Airline of the Year 2016 (US-based aviation industry publication ATW)
- First Middle Eastern MRO to receive Major Part 21J approval from EASA



EFTA\_R1\_00016005

THANK YOU



EFTA\_R1\_00016006

EFTA01735174