

A decorative graphic on the left side of the slide, consisting of white and light blue lines that resemble a circuit board or a network diagram. The lines are vertical and horizontal, with small circles at the ends, creating a stylized, abstract pattern.

# AIR – GROUND COMMUNICATION

SIRM- WEST AFRICA 2024

## DEFINITION

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Two-way communication between aircraft and stations or locations on the surface of the earth.

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-ICAO Annex 10 – Aeronautical Communication

# CLASSIFICATIONS ARE BROKEN INTO:~



## VOICE

UHF

VHF

HF



## DATA

ACARS

CPDLC

ADS-B/C

TRANSPONDER MODE S



## VISUAL

AIRPORT BEACON

PAPI/VASI

ALS/TAXI LIGHTS

FLARES/PYROTECHNICS

# WHY DO THINGS GO WRONG?



# COMMUNICATION ERRORS INCLUDE:

Human factors

Language and communication

Non-standard phraseology

Building situational awareness

Frequency congestion

Omission of call sign

Inadequate read back

Failure to correct faulty read back

Expectations

Failure to question instructions

Failure to request clarification

Taking another aircraft's clearance/instruction

Blocked/simultaneous transmission

Loss of communication

Filtering communications

Controller on second frequency

Controller on landline

# AIR ACCIDENTS DUE TO COMMUNICATION ERRORS

TENERIFE AIR DISASTER -  
KLM/PANAM - 1977



FLYING TIGER FLIGHT  
66(FEDEX) - 1989



UPS 1354  
BIRMINGHAM - 2013



# MITIGATION MEASURES



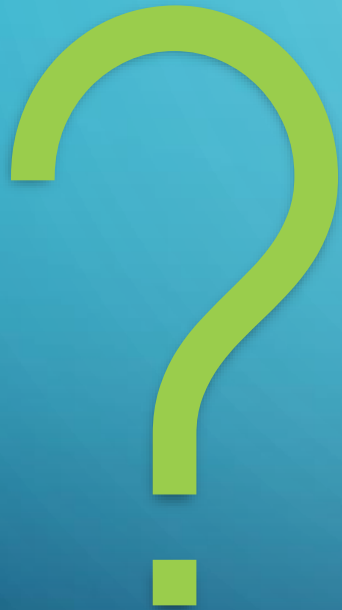
- Standard Phraseology
- ICAO language (Aviation English)
- Hear back – Readback
- Enunciation/pronunciation/tone
- Use of Keywords – Level, Heading
- Alphanumeric call signs
- Seek clarification
- CPDLC utilization
- IFBP use (In Flight Broadcast Procedure)
- ADS-B /C integration
- Prompt reporting of miscommunication challenges
- Maintenance of Nav aids/Airport Infrastructure

# HOMEWORK:

Youtube:

Mentour pilot - DEADLY Attitude! The truly shocking story of Pakistan Airlines 8303

# QUESTIONS



# CONTACT

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