ICAEA CONFERENCE 2019 – TOKYO JAPAN

Day 2: Identifying Training Needs
SESSION 3: Equipping ab-initio pilots and controllers with language skills for operational training

Workshop Objectives

- Identifying training needs
- Understanding cultural issues
- Use of ATC in the classroom

Workshop Format

- Introduction: 15 minutes
- Workshop Activities: 30 minutes
- Discussion: 10 minutes

Session 3: Workshop F
Dealing with Culture in Developing an Effective Pilot Language Program for Ab- initio Training

Jenny Drayton, GAL Air Navigation Services L.L.C. (UAE) & Michael Kelly, J.F. Oberlin University (Japan)
Balancing Aviation English Training Needs with Time Constraints

ATC communications needs to be the centerpiece of any ab-initio aviation English program

What should I teach and how should I teach it?

Teach Interaction skills!

Make it real!

ATC (Radio Work)

Technical Operations

POH

Test Prep

English Requirements

Level 4

TOEIC 650

Ground Operations

WX briefing

FLT briefing

Navigation

Flight Operations

ATC communications needs to be the centerpiece of any ab-initio aviation English program

Task Oriented

Content Based

Chart Reading

Flight Planning

Pre-flight

WX Briefing

Flight Briefing

Airport Operations

Ab-initio Aviation English Training

AB INITIO AVIATION ENGLISH TRAINING

Ab-initio Aviation English Training

ATC communications needs to be the centerpiece of any ab-initio aviation English program

Teach Interaction skills!

Make it real!

Balancing Aviation English Training Needs with Time Constraints

What should I teach and how should I teach it?

Teach Interaction skills!

Make it real!

Balancing Aviation English Training Needs with Time Constraints

What should I teach and how should I teach it?

Teach Interaction skills!

Make it real!

Balancing Aviation English Training Needs with Time Constraints

What should I teach and how should I teach it?

Teach Interaction skills!

Make it real!

Balancing Aviation English Training Needs with Time Constraints

What should I teach and how should I teach it?

Teach Interaction skills!

Make it real!

Balancing Aviation English Training Needs with Time Constraints

What should I teach and how should I teach it?

Teach Interaction skills!

Make it real!

Balancing Aviation English Training Needs with Time Constraints

What should I teach and how should I teach it?

Teach Interaction skills!

Make it real!

Balancing Aviation English Training Needs with Time Constraints

What should I teach and how should I teach it?

Teach Interaction skills!

Make it real!
Memorization vs Critical Thinking

立場 (understanding your place)

我慢 (avoid conflict / keep the peace / harmony)

Japanese don’t . . .

Radio Comm. Characteristics
- Accuracy & Proficiency
- Time Critical
- 10-15 sec transmissions
- 4-6 pieces of information

Pilot / Controller Skills
- Situation Awareness
- Decision-making
- Conflict resolution
- Multi-tasking

Communication skills play a large role in the high level of trust required between controllers and pilots.
WORKSHOP ACTIVITY
AUTOMATIC TERMINAL INFORMATION SERVICE (ATIS)

**Process information**
- Airport Info.
  - Name / Code / Zulu Time
- WX Info.
  - Wind / V / SKC
  - TT / DP
  - ALTIMETER
- RWY Info.
  - Instrument approach
  - LND / DEP RWY
- NOTAM

**Airport**
- Weather
- RWY
- NOTAM

**Show relationship**
- Task oriented / Content based
  - Copy the ATIS
  - Call out / Respond back

**Responsibility of information**
- Speak up!
- Check & confirm
- Use Inquiry

**FFZ ATIS**
- Pronunciation
- Structure
- Vocabulary
- Fluency
- Comprehension
- Interactions

**IWA ATIS**
WORKSHOP ACTIVITY
ATC RADIO WORK

Pilot / TWR

Station ➔ Call sign ➔ Position ➔ Request ➔ ATIS

Initial Contact

TWR Instructions

Position report

TWR LND Instructions

LND Clearance

- Straight in
- Normal
- Direct base

Pattern entry ➔ RWY assign. ➔ Reporting point

Request

Landing

Touch and Go

Transition

- Report 2 mile final
- Report downwind
- Report 2 mile base

ATIS Request
Initial Contact - ARR

Station → Call sign → Position → Request → ATIS

Pattern Entry → RWY Assignment → Reporting Position

PILOT: Goodyear Tower, Cessna 1212F, over PIR, request full stop landing with ‘Alpha’

TWR: Cessna 1212F, Goodyear TWR, enter left downwind, RWY 21, report downwind

PILOT: Report downwind, RWY 21, Cessna 1212F

Position: Glendale
Request: LND
TWR: RWY 21

Position: Twin Lakes
Request: Full Stop
TWR: RWY 3

Position: The Gap
Request: T/G
TWR: RWY 21

Position: Tank Farm
Request: LND
TWR: RWY 21

Teaching Objectives:
- Interaction skills
- Timely responses
- Accuracy & Proficiency
- Check & Confirm skills

Critical-thinking skills:
- Situation Awareness
- Decision - making
- Conflict resolution
- Multi - tasking

Process the information
Anticipate the action

Practice making initial contact with a partner.
Conclusion

- Pilots / Controller students need to speak up and make simple, accurate and timely responses
- Courses should be task-oriented and content based
- Focus should be on ATC communication skills involving situation awareness, decision making and conflict resolution.
- The 6 evaluation areas, especially INTERACTION, should be applied in all tasks

Create situations where students must make a decision on how to resolve a conflict

Discussion

Teaching aims?

Method?

Constraints?

Jenny Drayton, GAL Air Navigation Services L.L.C. (UAE) & Michael Kelly, J.F. Oberlin University (Japan)