





TELLCAP®

# TARGET LANGUAGE USE ANALYSIS IN AVIATION ENGLISH TESTING

Sergey Melnichenko,
Deputy Director,
Complana Aviation 1

**Complang Aviation Training Center** 







# TELLCAP® Test of English Language Level for Controllers And Pilots

- 2005 endorsed by the Russian CAA
- 2006 accredited and endorsed by
  - the Interstate Aviation Committee
- 2011 endorsed by Austrocontrol
- 2012 conditionally endorsed by ICAO
- 2013 ???











**General English Testing** 









#### **ICAO Language Proficiency Rating Scale**

Level	intelligible to the aeronautical community	Structure Relevant grammatical structures and sentence patterns are determined by language functions appropriate to the task		Fluency	Comprehension	Interactions
· ·	Pronunciation, stress, rhythm, and intonation, though possibly influenced by the first language or regional variation, almost never interfere with ease of understanding.	Both basic and complex grammatical structures and sentence patterns are consistently well controlled.	familiar and unfamiliar topics.	Able to speak at length with a natural, effortless flow. Varies speech flow for stylistic effect, e.g. to emphasize a point. Uses appropriate discourse markers and connectors spontaneously.	linguistic and cultural subtleties.	Interacts with ease in nearly al situations. Is sensitive to verba and non-verbal cues and respond to them appropriately.
Extended 5	Pronunciation, stress, rhythm, and	Basic grammatical structures and sentence patterns are consistently well controlled. Complex structures are attempted but with errors which sometimes interfere with meaning.	Vocabulary range and accuracy are sufficient to communicate effectively on common, concrete, and work- related topics. Paraphrases consistently and successfully. Vocabulary is sometimes idiomatic.	Able to speak at length with relative ease on familiar topics but may not vary speech flow as a stylistic device. Can make use of appropriate discourse markers or connectors.	related topics and mostly accurate when the speaker is confronted with a linguistic or situational complication or an unexpected turn of events. Is able to comprehend a range of speech varieties (dialect and/or accent) or registers.	relationship effectively.
	Pronunciation, stress, rhythm, and intonation are influenced by the first language or regional variatior but only sometimes interfere with ease of understanding.		are usually sufficient to communicate effectively on common, concrete, and work- related topics. Can often paraphrase successfully when	Produces stretches of language at an appropriate tempo. There may be occasional loss of fluency on transition from rehearsed or formulaic speech to spontaneous interaction, but this does not prevent effective communication. Can make limited use of discourse markers or connectors. Fillers are not distracting.	on common, concrete, and work- related topics when the accent or variety used is sufficiently intelligible for an international community of users. When the speaker is confronted with a linguistic or situational	appropriate, and informative.
	intonation are influenced by the first language or regional variation and frequently interfere with ease	always well controlled. Errors	Vocabulary range and accuracy are often sufficient to communicate on common, concrete, or work-related topics, but range is limited and the word choice often inappropriate. Is often unable to paraphrase successfully when lacking vocabulary.	Produces stretches of language, but phrasing and pausing are often inappropriate. Hesitations or slowness in language processing may prevent effective communication. Fillers are sometimes distracting.	community of users. May fail to understand a linguistic or	Responses are sometimes immediate, appropriate, and informative. Can initiate and maintain exchanges with reasonable ease on familiar topi and in predictable situations. Generally inadequate when dealing with an unexpected turn events.
Elementary 2	Pronunciation, stress, rhythm, and intonation are heavily influenced by the first language or regional variation and usually interfere with ease of understanding.	Shows only limited control of a few simple memorized grammatical structures and sentence patterns.	Limited vocabulary range consisting only of isolated words and memorized phrases.	Can produce very short, isolated, memorized utterances with frequent pausing and a distracting use of fillers to search for expressions and to articulate less familiar words.	Comprehension is limited to isolated, memorized phrases when they are carefully and slowly articulated.	Response time is slow and ofter inappropriate. Interaction is limited to simple routine exchanges.
re- elementary 1	Performs at a level below the Elementary level.	Performs at a level below the Elementary level.	Performs at a level below the Elementary level.	Performs at a level below the Elementary level.	Performs at a level below the	Performs at a level below the Elementary level.

#### ICAO Holistic Descriptors of a Proficient Speaker

- a) Proficient speakers shall communicate effectively in voice-only (telephone/radiotelephone) and in face-to-face situations.
- b) Proficient speakers shall communicate on common, concrete and work-related topics with accuracy and clarity.
- c) Proficient speakers shall use appropriate communicative strategies to exchange messages and to recognize and resolve misunderstandings (e.g. to check, confirm, or clarify information) in a general or work-related context.
- d) Proficient speakers shall handle successfully and with relative ease the linguistic challenges presented by a complication or unexpected turn of events that occurs within the context of a routine work situation or communicative task with which they are otherwise familiar.
- e) Proficient speakers shall use a dialect or accent which is intelligible to the aeronautical community.







### Level 6

## Comprehension

# Comprehension is consistently accurate in nearly all contexts and includes comprehension of linguistic and cultural subtleties.

#### **Interactions**

Interacts with ease in nearly all situations. Is sensitive to verbal and non-verbal cues and responds to them appropriately.







# "Cleared for ILS approach

to the runway-in-use".

Ask for clarification

Complang









#### **Transcript**

No	P/C	Message	Comments	Communicative Functions
	Р	Okay, Moscow, November one three zero Tango Mike is heading two four zero, descending down to five thou er to one thousand eight hundred meters.	"Down" is redundant and not specified in ICAO Doc 4444 The first sign that the crew mixes SI and metric units of measurements	Inform ATC about heading and descent.
2	C1	November one three zero Tango Mike, Vnukovo Radar, turn right, heading three three zero, descend to level one thousand two hundred meters.		Respond to initial call. Give heading and descent instructions.
3	Р	three zero, down to one thousand two hundred meters, roger.	ICAO wording: "descending to". Failure to use call sign in acknowledgement	Receive and read back heading and descent instructions.
4	C1	November one three zero Tango Mike, descend to height six hundred meters, QFE niner seven niner millibars.		Give descent instructions. Give data for altimeter setting.
5	Р	Roger, nine seven niner millibars, and we're down to six hundred meters, roger.	ICAO wording:  "descending to" Failure to use call sign in acknowledgement (repetitive in further communications)	Receive and read back descent instructions and data for altimeter setting.







1950s

ICAO requirement to use standardized phraseology

2008

ICAO requirement to demonstrate at least L4 in the language of ATC when phraseology does not suffice







ICAO <u>Language</u>

**Proficiency Requirements** 

ICAO <u>Language</u>

**Proficiency Rating Scale** 







## ICAO Doc 9835:

"a broad interpretation of the holistic descriptors and Rating Scale" aimed at eliciting "plain language on various topics that are related to radiotelephony communications or aviation operations, without replicating radiotelephony communications specifically".







# PROPOSAL FOR ADDITIONAL PASS/FAIL DESCRIPTORS FOR PHRASEOLOGY TO COMPLEMENT EXISTING ICAO LANGUAGE PROFICIENCY RATING SCALE DESCRIPTORS

Level	Descriptors
PASS	Mostly uses standard ICAO phraseology accurately and appropriately, even when switching between phraseology and appropriate plain language. Pronunciation of phraseology conforms to ICAO recommended pronunciations when available, or otherwise to a natural model of pronunciation which is intelligible to the aeronautical community. Speech transmitting technique (enunciation, rate of speech, pausing, and speaking volume) is adequate to fulfill ICAO recommendations for intelligibility.
	Frequently fails to use standard ICAO phraseology accurately and appropriately, particularly when switching between phraseology and appropriate plain language.  Pronunciation of phraseology frequently fails to conform to recommended pronunciations when available, or otherwise fails to conform to ICAO recommended pronunciations when available, or otherwise fails to conform to a natural model of pronunciation which is intelligible to the aeronautical
FAIL	community. Speech transmitting technique (enunciation, rate of speech, pausing, and speaking volume) is not adequate to fulfill ICAO recommendations for intelligibility.







# We do not simulate radio communications in test tasks

- to avoid standard phraseology;
- because a characteristic feature of radio communication, as a register, - elliptical grammar, - would not follow the ICAO Scale (when articles, auxiliaries, personal and possessive pronouns can be omitted, etc);
- as it does not allow for assessment of fluency in accordance with the Scale (in radio communications there are no links and discourse markers, and rate of speech should be maintained at a certain tempo, etc);
- because when you need to code-switch from standard phraseology to general language in non-standard situations the requirements remain the same: communication should be concise and unambiguous.







#### TELLCAP®, Part 2

- What kind of medical problems are most common among the passengers during the flight?
- What medical specialists can be needed to treat sick or injured passengers after landing?
- What is the crew to do in case of a medical emergency?









	Message	Blue – standard phraseology  Red – General English in aviation context.
P	Lufthansa seven three six, er we have some er passenger with medical problems on board, we need to land at Moscow Sheremetyevo, can you please er give us er routing back to Moscow and descend flight level please.	State health problem. Request rerouting and descent.
С	Lufthansa seven three six, roger, turn left, er heading to Mike Foxtrot, descend to flight level nine thousand six hundred meters.	Receive information on health problem. Receive request for rerouting. Give instructions on heading and descent.









С	Lufthansa seven three six, what kind of	Query about the kind of
	medical assistance do you need?	assistance.
P	Lufthansa seven three six, er dent, dentist, we need a dentist, that's a medical for teeth, and the patient had troubles with teeth, and then he could not breathe, he was breathing very hardly.	Describe health problem and symptoms.  Request appropriate medical assistance upon arrival (medical specialist).
С	Lufthansa seven three six, confirm you need dentist?	Ask for confirmation.
	11.000.0.01.000	
Р	A m a dentist, er it's affirmative, and we	Describe health problem and
P	A m a dentist, er it's affirmative, and we need also a heart, er doctor for heart, for breathing, /?/ breathing, he did not	Describe health problem and symptoms.  Request appropriate medical
P	A m a dentist, er it's affirmative, and we need also a heart, er doctor for heart, for	symptoms.









С	Er, Lufthansa seven three six, roger, you need a dentist and normal medical help.	Request for confirmation.
P	That's affirmative, and maybe you have a	State the problem, request
	<u>Dolmetscher (Germ.)</u> , because the, the passenger, she is a Japanese, she only er speaks Japanese.	appropriate assistance.
С	You need a translator?	Ask for clarification.
P	That's affirmative, Russian to Japanese.	Confirm the request.
С	Roger.	Acknowledge.









Question	Linguistic task/ function tested	Content, topical domain tested
1) What kind of medical problems are most common among the passengers during the flight?	(Appendix B, Part I: 2)	Appendix B, Part II: 1 [Symptoms, sickness, medical background of passengers, wounds, discomfort, epidemics, food poisoning]
2) What medical specialists can be needed to treat sick or injured passengers after landing?	_`\ <u>*</u> *	Appendix B, Part II: 1 [First aid, type of medical assistance, medical staff]
3) What is the crew to do in case of a medical emergency?	(Appendix B, Part I:1)	Appendix B, Part II:1 [Medical advice, type of medical assistance, medical staff, diversion]







## **LANGUAGE**







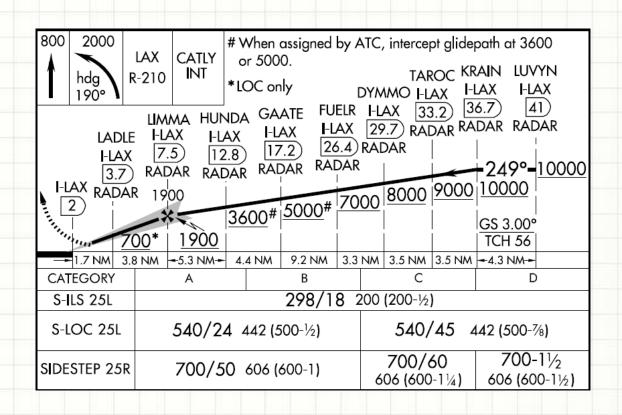


**Interactional Use** 









"Technical" questions in ESP testing







"In each situation, the hearer expects the speaker's utterances to make sense in the context in which they are produced, but such expectancy is only possible if the hearer knows who is using the language, how, and for what purpose. This is, in fact, why so much of language-in-action appears unintelligible to the outsider"

A. Vatnsdal







# **Complang** Civil Aviation Training Centre

Moscow,

Molodogvardeyskaya Street, 61

info@complang.ru



Tel. +7 (495) 589 1356

+7 (495) 991 3703

Fax +7 (495) 589 1356

www.complang.ru

www.tellcap.ru