



Checkpoint

LANGUAGE TESTING FOR STUDENT SELECTION

Test development and maintenance

May 2017

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1. Introduction

Checkpoint is an English Language Proficiency (ELP) test designed to measure the English language skills required for successful English-medium aviation training. Checkpoint is owned and operated by Latitude Aviation English Services Limited (UK).

At Latitude, we are committed to providing quality language training and testing products and services, and to helping our stakeholders to understand and use them. This document describes the development and maintenance of Checkpoint. The document is intended primarily to help aviation training decision-makers and admissions officers decide if Checkpoint meets their language testing requirements, but it may be of interest to other stakeholders in aviation training such students, student sponsors, English language instructors, aviation assessors and training managers.

2. Development rationale

Rapid growth in the aviation industry has created a demand for trained pilots and Air Traffic Control Officers (ATCOs). The majority of students entering aviation training around the world do not have English as a first language and yet much aviation training is conducted in the medium of English. As aviation training is a costly undertaking, students, student sponsors and ATOs that provide aviation training in the medium of English need to be confident that inadequate language proficiency will not impede training success. Therefore, language testing for student selection is a high-stakes activity that requires valid and reliable language assessment in order to reduce risk for all stakeholders.

During conversations with our customers and potential customers, we became aware of dissatisfaction with existing general, academic and aviation language tests used for the purposes of student selection. Customers reported that such tests:

- May produce scores which do not equate with the levels of ELP presented by students on arrival for training;
- May not measure the language skills that students require for successful aviation training;
- May not reflect the subject matter and language use settings that students encounter in aviation training; and/or
- May be expensive, inflexible and/or inconvenient.

3. Customer needs analysis

In early 2013 we conducted a survey of some of the general, academic and aviation language tests available and concluded that:

- ICAO language tests for personnel licensing are inappropriate for student selection because:
 - They are designed for licensed professionals, not for students;
 - They do not address reading which is a skill crucial for successful aviation training; and
 - They assume professional knowledge of RT and aviation operations that students do not have.
- General and academic English tests are also inappropriate for student selection because:
 - They do not test in the context of aviation training and so results are less valid; and
 - They test content and skills which are irrelevant to the needs of the students.

Following these conclusions, we presented a questionnaire on language testing for student selection to 16 training managers and language instructors working for ATOs in Bahrain, Cameroon, Canada, Germany, Italy, Jordan, Kazakhstan, Qatar, Russia, Serbia, Turkey and USA. Below are the responses to the questionnaire.

- All respondents reported that their ATO conducted aviation training in the medium of English.
- When asked to rate the importance of the four skills (reading, writing, listening and speaking) in aviation training, respondents answered as follows:

| | No so important | Important | Very important | Essential |
|-----------|-----------------|-----------|----------------|-----------|
| Reading | 6.25% | 43.75% | 25.00% | 25.00% |
| Writing | 37.50% | 50.00% | 12.50% | 0.00% |
| Listening | 0.00% | 0.00% | 18.75% | 81.25% |
| Speaking | 0.00% | 6.25% | 31.25% | 62.50% |

- When asked what information they would find useful from test results, respondents answered as follows:

| | Not so useful | Useful | Very useful | Essential |
|---|---------------|--------|-------------|-----------|
| Whether a student is ready (or not) for aviation training | 12.50% | 18.75% | 43.75% | 25.00% |
| A student's strength and weakness | 6.67% | 20.00% | 46.67% | 26.67% |
| How much language training a student needs (if any) | 12.50% | 25.00% | 43.75% | 18.75% |

- When asked whether a professionally-produced online English language test for student selection would be useful for their organisation, respondents answered as follows:

| | |
|-------|--------|
| Yes | 60.00% |
| No | 6.67% |
| Maybe | 33.33% |

Based on the results of the questionnaire, we decided to develop a specific-purpose aviation language test for student selection. Work began in May 2013 and the test was launched for operational use in November 2014.

4. Test development team

4.1 Latitude team

| Name | Role | Experience and expertise |
|------------------------|-----------------------------------|---|
| Henry Emery | Project manager, lead item writer | <ul style="list-style-type: none"> ➤ Project manager: English Test for Aviation – first ICAO endorsed language test ➤ Project manager: <i>ICAO Samples Training Aid</i> (RSSTA) developed by ICAEA with the universities of Lancaster, Cambridge and Melbourne ➤ Co-author, British Council award-winning <i>Aviation English</i> (Macmillan, 2008) and <i>Check Your Aviation English</i> (Macmillan, 2010) |
| Captain Dennis Gliddon | Content writer / editor | <ul style="list-style-type: none"> ➤ KLM/Air France, Captain - Fokker 50/100, Embraer 170/190 (35 years' flying) ➤ Cambridge English Language Teaching to Adults (CELTA) |
| Dr Peter Bradon | Systems / IT / test analysis | <ul style="list-style-type: none"> ➤ Ph.D Psychology of human reasoning ➤ Statistical analyst on item difficulty for the Educational Testing Service ➤ Co-Author, Item Generation for Test Development Routledge, 2002 |

4.2 External development consultants

| Name | Role | Experience and expertise |
|----------------------|---------------------------|--|
| Stephanie Whitebread | Content writer / editor | <ul style="list-style-type: none"> ➤ Former Heathrow APP ATCO (25 years) ➤ Cambridge English Language Teaching to Adults (CELTA) |
| Neil Bullock | Content reviewer / editor | <ul style="list-style-type: none"> ➤ Former assistant ATCO (Newcastle) and airside driver trainer ➤ Trinity Certificate in TEFL, Institute of Linguists PGDip, MA modern languages, MA applied linguistics ➤ Authorised Skyguide ELPAC Examiner ➤ Swiss Federal Office of Civil Aviation authorised language assessor and assessor trainer |
| Magdalena Večeřová | Content reviewer / editor | <ul style="list-style-type: none"> ➤ MA in TEFL, MA in Language Testing (Lancaster University) ➤ Testing expert: EUROCONTROL, IANS, Luxembourg – ICAO endorsed English Language Proficiency for Aeronautical Communications (ELPAC) - (Classical test theory and item response theory analysis) |
| Nia Franks | Content reviewer | <ul style="list-style-type: none"> ➤ Captain/line pilot for Queensland Government - Police Air Wing. 35 years aviation experience as PIC in UK, France, Poland, Canada, U.S., South Africa, and Australia. |

4.3 External test reviewers

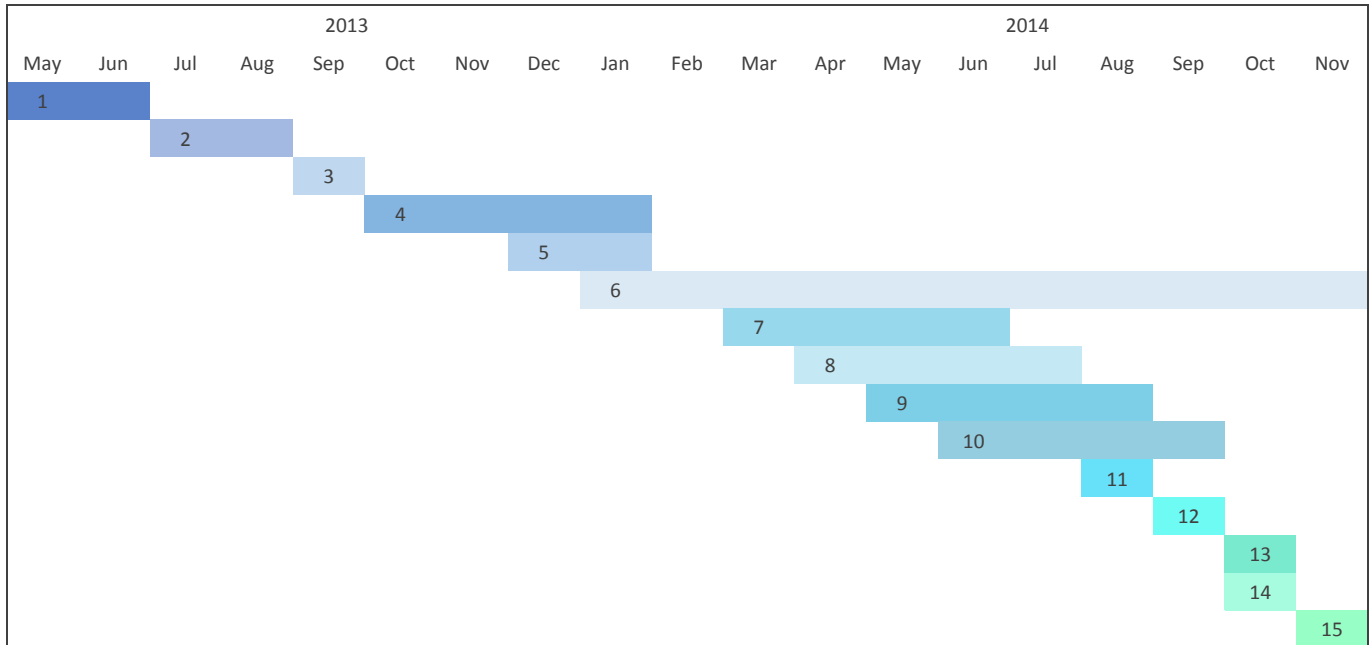
| Name | Role | Experience and expertise |
|----------------|---------------|---|
| Mike Langley | Test reviewer | <ul style="list-style-type: none"> ➤ Royal Air Force pilot ➤ Former Head of Training, Oxford Aviation Academy |
| Richard Taylor | Test reviewer | <ul style="list-style-type: none"> ➤ Royal Navy Air Traffic Control Officer ➤ Former Head of International Training, National Air Traffic Services (UK) |
| Nick Mylne | Test reviewer | <ul style="list-style-type: none"> ➤ Former helicopter pilot ➤ Current ground school instructor (Human Performance) |

5. Development process



6. Development phases

The numbered phases in the table below correspond to the numbered stages in the test development process above.



7. Test battery and test maintenance

In the live test battery, there is a bank of two parallel versions of each task known as the ‘A set’ and ‘B set’. Tests are compiled from selections from the bank resulting in the potential for thousands of different test forms. As candidature grows, old content is retired and new content is developed, trialed and introduced into the test battery according to the procedures outlined in sections 7, 8, 9, 11 and 12 of the development process described above.

The test management team meet regularly to review test and task specifications and customer and candidate feedback, to set the research and development agenda and to identify possible improvements to the test and supporting documentation.