



## YOUR GO-TO SOLUTION FOR AVIATION PHRASEOLOGY LEARNING AND PRACTICE.

Adacel's Intelligent Communications Environment (ICE) is an aviation phraseology training tool for air traffic controllers and pilots. This easy-to-use application features an accent-tolerant speech recognition to optimize training of English and non-native-English-speaking students. With ICE, students of all backgrounds can gain comprehensive knowledge to correctly apply aviation phraseology to their day-to-day operations. The system supports FAA or ICAO standard phraseology and includes an open-source, AICC-compliant Learning Management System (LMS). It can also be integrated with an existing LMS. Editing tools help tailor interactive exercises based on your local landmarks. The tool also allows you to add teaching points and questions to complement your curriculum. You can also use audio recordings to improve your students' listening skills, which is just as important as proper communication.

# ICE

INTELLIGENT COMMUNICATIONS ENVIRONMENT

# COMPETITIVE ADVANTAGES

## DEVELOPED FOR THE AVIATION INDUSTRY

- Ideal for FAA and ICAO Level 4 aviation English training
- Customizable to support specific objectives such as pilot or ATC training
- More effective use of higher fidelity training devices when students practice on ICE first
- Provides technology-savvy students with a compelling learning tool
- Optimized training process with ICE self-paced learning
- Students can practice anytime, anywhere
- Reinforces proper radio discipline
- Student progress monitored without “over-the-shoulder” supervision
- Creates an immersive and interactive learning environment
- Worldwide application with multiple text-to speech (TTS) voices with accented English
- Delivers immediate color-coded text feedback for each word recognized by the speech recognition engine
- Customizable lessons to reflect specific teaching points and phraseology
- Basic ATC simulation logic facilitates contextual training for your specific ATC environment
- Student access to practice and assessment modes
- Automated evaluation and reporting
- Can be used as stand-alone or in addition to other training tools
- Increased student comprehension, situational awareness, phraseology proficiency and overall student confidence



## TYPICAL USE

- Pilots, aviation controllers and other aviation personnel requiring ICAO aviation English level 4 proficiency training
- Ab initio pilots and air traffic controllers learning aviation terminology and communications procedures
- Airport and airspace familiarization
- Evaluation of potential ATC candidates
- Introduction and basic practice of ATC procedures and skills

## CASE STUDY

In July 2018, the Civil Aviation University of China acquired ICE licenses for its ATC students and by July 2019, 500 students used this training tool. Upon conducting a brief survey with its students, the school released the following findings to Adacel:

- Over 82% of students found ICE to be a good practice tool
- 100% regarded ICE as a tool to improve their overall air traffic control communication skills
- Over 93% said their pronunciation was better as a result of training with ICE
- Over 85% agreed their listening level improved
- Over 90% confirmed they were able to improve their procedural skills



## SO WHY CHOOSE ICE?

ICE uses Adacel's accent-tolerant speech recognition technology and air traffic expertise to generate an immersive, dynamic learning environment. The ability to customize these lessons is priceless to any organization. Students interact with the systems in scenarios that create context for phraseology and develop proficiency, ready to be employed in the air and on the ground. They gain a much stronger understanding of the terminology and how to correctly use it in real-world situations. It is as simple as speak, watch, and learn. Contact us to learn more - we look forward to connecting with you and learning more about your training needs.

**We are here to help. Contact us: [info@adacel.com](mailto:info@adacel.com)**

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