

scenario based training with x plane and microsoft flight simulator using pc based flight simulations based on faa industry training standards

Scenario Based Training with X Plane and Microsoft Flight Simulator Using PC Based Flight Simulations Based on FAA Industry Training Standards

Scenario based training with X Plane and Microsoft Flight Simulator using PC based flight simulations based on FAA industry training standards has transformed how pilots prepare for real-world flying. By leveraging highly advanced simulation platforms on personal computers, flight schools and individual aviators can now immerse themselves in realistic training environments that meet rigorous Federal Aviation Administration (FAA) criteria. This modern approach blends technology, practical scenarios, and regulatory compliance to create a more effective and accessible pilot training experience.

Understanding Scenario Based Training in Flight Simulation

Scenario based training (SBT) is a training methodology that focuses on realistic, operational scenarios rather than just procedural drills. For pilots, this means practicing real-world situations like emergency procedures, complex weather conditions, and air traffic communication through immersive simulations. When combined with PC based flight simulators such as X Plane and Microsoft Flight Simulator, SBT offers a highly engaging way to develop decision-making skills, situational awareness, and aircraft handling.

Why Scenario Based Training Matters

Traditional pilot training often centers on rote learning and repetitive exercises. While those are important, scenario based training bridges the gap between theory and practice by placing pilots in context-rich environments. This approach encourages critical thinking and adaptability, qualities essential for safe flying. The FAA recognizes the value of SBT and incorporates it into many of its training standards, ensuring that pilots trained in this manner are well-prepared for the complexities of modern aviation.

Leveraging X Plane and Microsoft Flight Simulator for FAA-Compliant Training

Both X Plane and Microsoft Flight Simulator have gained popularity not only among aviation enthusiasts but also within professional pilot training circles. Their realistic flight dynamics, detailed aircraft models, and comprehensive global scenery make them ideal tools for scenario based training aligned with FAA industry standards.

X Plane: Precision and Flexibility for Training

X Plane is known for its highly accurate flight model, which simulates aerodynamic forces more realistically than many competitors. This precision makes it an excellent choice for training pilots who require detailed feedback on aircraft performance. Additionally, X Plane supports plugin integration and customizable scenarios, allowing flight instructors to design training sessions tailored to specific FAA scenario based training objectives.

Microsoft Flight Simulator: Immersive Environments and User-Friendly Interface

Microsoft Flight Simulator boasts stunning graphics and a rich, dynamically updated world that mimics real-time weather and air traffic. This realism enhances the immersive nature of scenario based training, making it easier for pilots to practice navigation, communication, and emergency procedures under varying conditions. Its intuitive interface also lowers the barrier to entry, enabling both student pilots and seasoned aviators to benefit from consistent practice aligned with FAA standards.

FAA Industry Training Standards and PC Based Simulations

The FAA has established comprehensive guidelines for flight simulation training devices (FSTDs) to ensure quality and safety in pilot education. While full-motion simulators remain the gold standard, PC based flight simulators are increasingly recognized for their role in scenario based training, particularly under the FAA's Part 141 and Part 61 training regulations.

FAA Regulations Supporting PC-Based Scenario Training

FAA Advisory Circulars, such as AC 61-136 and AC 120-40, outline the criteria under which flight simulation devices can be used for pilot training and testing. While PC based simulators like X Plane and Microsoft Flight Simulator may not always meet the highest levels of device qualification, they are invaluable for scenario based training that complements in-aircraft instruction. Flight instructors often integrate PC simulations into their syllabi to reinforce learning, practice cockpit procedures, and prepare for checkrides.

Benefits of Meeting FAA Standards in PC-Based Training

Adhering to FAA industry training standards when using PC simulators ensures that the training is relevant, effective, and transferable to actual flying. This means scenarios are designed with FAA-approved procedures, communication protocols, and emergency checklists. The result is a comprehensive training experience that builds pilot competence and confidence while maintaining regulatory compliance.

Designing Effective Scenario Based Training Sessions

Creating scenario based training with X Plane and Microsoft Flight Simulator requires thoughtful planning to maximize learning outcomes. The goal is to simulate situations that challenge the pilot's skills in a controlled, repeatable manner.

Key Elements of a Successful Training Scenario

- **Clear Objectives:** Define what skills or knowledge the scenario aims to develop, such as handling engine failures, IFR navigation, or ATC communications.
- **Realistic Conditions:** Use weather settings, time of day, and traffic density to replicate operational environments.
- **Progressive Complexity:** Start with simpler scenarios and gradually introduce more challenging elements.

- **Feedback and Debriefing:** After completing the scenario, review performance with instructors or through self-assessment tools built into the simulators.

Examples of FAA-Compliant Training Scenarios

- **Emergency Procedures:** Simulating engine failure, electrical system malfunctions, or rapid decompression.
- **Instrument Flight Rules (IFR) Navigation:** Practicing approaches, holds, and missed approaches in varying weather.
- **Communications and ATC Interaction:** Engaging with air traffic control using realistic phraseology and timing.
- **Adverse Weather Operations:** Flying in turbulence, icing conditions, or low visibility.

Tips for Maximizing Training Effectiveness with PC Simulators

While PC based flight simulations offer tremendous benefits, getting the most from scenario based training requires some best practices.

- **Invest in Quality Hardware:** Using reliable flight controls, such as yokes, rudder pedals, and throttles, enhances realism and muscle memory development.
- **Utilize Add-Ons and Plugins:** Many third-party developers offer FAA-compliant scenario packs and training aids compatible with X Plane and Microsoft Flight Simulator.
- **Record and Review Sessions:** Video recording scenarios allows pilots to evaluate their actions and identify areas for improvement.
- **Blend Simulator Training with Real Flight:** Use PC simulators to complement in-aircraft instruction, not replace it, ensuring a well-rounded training experience.
- **Stay Updated on FAA Guidance:** Regularly check FAA publications to ensure training scenarios remain aligned with the latest industry standards.

The Future of Scenario Based Training with PC Simulators

As technology advances, scenario based training with X Plane and Microsoft Flight Simulator continues to evolve. Enhanced virtual reality (VR) integration, artificial intelligence-driven air traffic control, and cloud-based collaborative training environments promise to make PC based flight training even more immersive and effective. The continued alignment with FAA industry training standards ensures that pilot education remains safe, standardized, and forward-looking.

For flight schools and individual pilots alike, embracing scenario based training using PC flight simulations represents a smart investment in skills development. It brings the cockpit experience home, offering a flexible, cost-effective, and FAA-compliant way to hone critical flying competencies anytime, anywhere.

Frequently Asked Questions

What is scenario-based training in the context of X-Plane and Microsoft Flight Simulator?

Scenario-based training (SBT) involves using realistic flight scenarios within simulators like X-Plane and Microsoft Flight Simulator to develop pilot decision-making, procedural knowledge, and situational awareness, aligning with FAA industry training standards.

How do X-Plane and Microsoft Flight Simulator meet FAA industry training standards for scenario-based training?

Both X-Plane and Microsoft Flight Simulator offer high-fidelity flight dynamics, customizable scenarios, and detailed avionics that comply with FAA guidelines for pilot training, allowing instructors to create FAA-compliant scenario-based training modules on PC-based platforms.

What are the benefits of using PC-based flight simulations like X-Plane and Microsoft Flight Simulator for FAA scenario-based training?

PC-based simulators provide cost-effective, accessible, and flexible training environments that replicate real-world flight conditions, enabling pilots to

practice emergency procedures, instrument approaches, and crew resource management in scenarios that meet FAA standards.

Can scenario-based training with X-Plane and Microsoft Flight Simulator be integrated into an FAA-approved training curriculum?

Yes, when properly configured and documented, scenario-based training conducted on X-Plane and Microsoft Flight Simulator can support FAA-approved training programs, particularly for initial, recurrent, and proficiency training under FAA industry training standards.

What are the key features to look for in X-Plane and Microsoft Flight Simulator to ensure effective scenario-based training aligned with FAA standards?

Key features include accurate flight physics, customizable weather and failure scenarios, realistic avionics, instructor control capabilities, and comprehensive debriefing tools, all of which help meet the FAA's requirements for scenario-based training effectiveness and documentation.

Additional Resources

Scenario Based Training with X Plane and Microsoft Flight Simulator Using PC Based Flight Simulations Based on FAA Industry Training Standards

Scenario based training with X Plane and Microsoft Flight Simulator using PC based flight simulations based on FAA industry training standards represents a transformative approach within modern aviation education. As flight training evolves, leveraging advanced simulation software aligned with regulatory frameworks has become critical for developing pilot competencies efficiently and cost-effectively. This article explores how these popular flight simulation platforms integrate scenario based training methodologies, their adherence to FAA guidelines, and their roles in shaping the future of pilot instruction.

Understanding Scenario Based Training in Aviation

Scenario based training (SBT) is an instructional method that immerses pilots in realistic, context-driven flight situations designed to enhance decision-making, situational awareness, and procedural proficiency. Rather than focusing solely on technical maneuvers, SBT emphasizes cognitive skills by placing trainees in dynamic scenarios mirroring actual flight challenges such

as adverse weather, system failures, or emergency procedures. The Federal Aviation Administration (FAA) has increasingly endorsed scenario based training as a standard because it promotes competency-based learning aligned with real-world operational demands.

FAA Industry Training Standards and Their Implications

The FAA's push toward competency-based training frameworks underscores the importance of scenario based methodologies. The FAA Advisory Circular 61-136A, for example, outlines best practices for integrating scenario based training into pilot certification processes. It encourages the use of flight simulation devices to replicate diverse flight conditions, allowing pilots to practice procedures safely and repeatedly. The standards emphasize measurable learning objectives, risk management, and the development of judgment skills, all of which scenario based training can deliver effectively when paired with advanced simulator technology.

PC Based Flight Simulations: X Plane and Microsoft Flight Simulator

In the realm of PC based flight simulations, X Plane and Microsoft Flight Simulator stand out as industry-leading platforms that support immersive and customizable training environments compliant with FAA training philosophies. Both simulators offer extensive capabilities to recreate aircraft systems, flight dynamics, and environmental variables, making them valuable tools for scenario based training.

Comparative Overview of X Plane and Microsoft Flight Simulator

- **X Plane:** Known for its highly detailed flight physics and accurate aerodynamic modeling, X Plane is favored by many professional pilots and instructors for scenario based training. Its "blade element theory" allows for realistic simulation of aircraft behavior under various conditions, essential for replicating emergency scenarios or system failures. Additionally, X Plane supports third-party add-ons, enabling further customization aligned with FAA training requirements.
- **Microsoft Flight Simulator:** Celebrated for its stunning graphics and real-world mapping powered by satellite data, Microsoft Flight Simulator excels in creating immersive environments that enhance situational

awareness training. While its flight dynamics are sophisticated, the platform's strength lies in its ability to simulate diverse weather patterns and global navigation scenarios, which are critical elements of scenario based training following FAA guidelines.

Integration of FAA Standards in Simulation Training

Both X Plane and Microsoft Flight Simulator can be configured to meet FAA industry training standards, especially when used with hardware peripherals such as yokes, rudder pedals, and multi-screen setups that replicate cockpit ergonomics. Flight schools and individual trainees can design scenario libraries that focus on FAA-mandated competencies, including instrument flight rules (IFR) procedures, emergency response drills, and cross-country navigation exercises. The adaptability of PC based flight simulations allows for continuous updates and scenario refinements to stay aligned with evolving FAA regulations.

Advantages of Using PC Based Flight Simulations for Scenario Based Training

The adoption of PC based flight simulations like X Plane and Microsoft Flight Simulator offers several benefits aligned with FAA training objectives:

- **Cost Efficiency:** Traditional flight training using actual aircraft is expensive and logistically complex. PC based simulators provide a cost-effective alternative, reducing fuel, maintenance, and scheduling constraints.
- **Risk Mitigation:** Trainees can safely encounter and manage emergency scenarios without real-world consequences, fostering confidence and skill development.
- **Customization and Flexibility:** Trainers can tailor scenarios to specific training goals, aircraft types, and regulatory requirements, ensuring focused skill acquisition.
- **Repetition and Feedback:** Scenarios can be repeated multiple times, and integrated debriefing tools enable detailed performance analysis, facilitating targeted improvements.
- **Accessibility:** PC based simulators allow pilots to train remotely or supplement in-person instruction, supporting continuous learning.

Challenges and Considerations

Despite these advantages, there are limitations to consider. Both X Plane and Microsoft Flight Simulator, while highly sophisticated, are not full-motion simulators and lack some tactile feedback important in real aircraft. Additionally, the fidelity of certain system simulations may vary, requiring instructors to carefully select scenarios and validate training outcomes against FAA standards. Integration with officially certified flight training devices (FTDs) or full flight simulators (FFS) remains essential for high-level certifications.

Future Trends in Scenario Based Training Using PC Simulations

Emerging technologies such as virtual reality (VR), artificial intelligence (AI)-driven adaptive training, and cloud-based multi-user environments are poised to enhance scenario based training further. Both X Plane and Microsoft Flight Simulator developers are exploring these innovations to increase realism and interactivity, aligning closely with FAA's push for competency-based and data-driven instruction. The ability to simulate complex airspace environments, real-time weather, and multi-crew coordination scenarios will increasingly bridge the gap between PC based training and full-scale simulator experiences.

Scenario based training with X Plane and Microsoft Flight Simulator using PC based flight simulations based on FAA industry training standards is redefining how pilots develop critical skills. These platforms provide accessible, flexible, and immersive environments that complement traditional training methods and support FAA's competency-driven vision. As technology advances and training standards evolve, the role of PC based simulation in aviation education is set to expand, offering promising pathways for safer and more effective pilot preparation.

[Scenario Based Training With X Plane And Microsoft Flight Simulator Using Pc Based Flight Simulations Based On Faa Industry Training Standards](#)

scenario based training with x plane and microsoft flight simulator using pc based flight simulations based on faa industry training standards: Scenario-Based Training with X-Plane and Microsoft Flight Simulator Bruce Williams, 2011-12-28 Fly toward pilot certification with these real-world scenario exercises Although PC-based flight simulations have been available for 30 years, many pilots, instructors, and flight schools don't understand how best to use these tools in real-world flight training and pilot proficiency programs. This invaluable reference bridges the

gap between simulation tools and real-world situations by presenting hands-on, scenario-based exercises and training tips for the private pilot certificate and instrument rating. As the first of its kind based on FAA-Industry Training Standards (FITS), this book steers its focus on a scenario-based curriculum that emphasizes real-world situations. Experienced pilot and author Bruce Williams ultimately aims to engage the pilot, reinforce the realistic selling point of PC-based flight simulations, while also complementing the FAA-approved FITS syllabi. Serves as essential reading for pilots who want to make effective use of simulation in their training while expanding their skill level and enjoyment of flying. Covers private pilot real-world scenarios and instrument rating scenarios. Includes a guide to recommended websites and other resources. Features helpful charts as well as a glossary. You'll take off towards pilot certification with this invaluable book by your side.

scenario based training with x plane and microsoft flight simulator using pc based flight simulations based on faa industry training standards: Neurostimulation: Exploring Perceptual & Cognitive Enhancement Adam Joseph Toth, Mark J. Campbell, Adam Bruton, 2025-08-06 Research investigating the use of electrical or magnetic stimuli to alter the electrophysiology of the central and peripheral nervous systems has flourished in recent years. The popularity of these techniques largely stems from their ability to create temporary lesions or enhancements in nervous system function. To date, a plethora of literature has emerged examining the role of neurostimulation for augmenting motor function, due to the relative ease of objectively quantifying changes in behavior, performance, and even motor-evoked potential amplitudes within individual muscles. However, the role of neurostimulation in enhancing perceptual and cognitive abilities is under-examined and is an area that is now continually gaining research attention. Evaluating the role of various forms of neurostimulation on cognitive and perceptual abilities can be challenging due to the lack of control over the underlying neural activity in the central nervous system and the sensitivity with which current measurement tools and tasks quantify cognitive and perceptual functioning. This research topic aims to facilitate the publication of high-quality, methodologically sound research that addresses the quantification and effect that various forms of neurostimulation have on cognitive and perceptual processes across the lifespan. In doing so, we endeavor to help advance the field of neurostimulation with respect to robustly mapping the effect of neurostimulation on cognitive and perceptual performance.

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scenario based training with x plane and microsoft flight simulator using pc based flight simulations based on faa industry training standards: Microsoft Flight Simulator X For Pilots Jeff Van West, Kevin Lane-Cummings, 2007-06-18 Get ready to take flight as two certified flight instructors guide you through the pilot ratings as it is done in the real world, starting with Sport Pilot training, then Private Pilot, followed by the Instrument Rating, Commercial Pilot, and Air Transport Pilot. They cover the skills of flight, how to master Flight Simulator, and how to use the software as a learning tool towards your pilot's license. More advanced topics demonstrate how Flight Simulator X can be used as a continuing learning tool and how to simulate real-world emergencies.

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to address the key questions and concerns when developing training and simulation in high-risk industries. This book identifies unexplored challenges and weaknesses in the aviation domain, including ground-based training and flight simulation compared to the real world of in-flight complex aircraft operations, aviation accidents and incidents, airspace and air traffic control, aeronautical communications, air navigation, aircraft automation, and pilot certification and testing. These concerns are not just relevant to aviation, however. This book pushes beyond aviation to include other fields, including petrochemical and medicine, that, while on the surface are different, include some of the same human and organizational challenges. It integrates machine challenges with human factors science and includes a view of the corporate influences on training. Safety is a consideration in all the challenges and current limitations in training and simulation, and the book is written with the intention of improving both training and safety as industries deal with more and more complex advanced technology. Underpinned by case studies and real-life examples, this book will give the reader a thorough overview of the limitations of current training methods but with a view to improving and developing better methods for future training scenarios. Opportunities and solutions are presented for current or future research and the application and incorporation of these in day-day operations. Training and Simulation: Processes, Challenges and Solutions will appeal to practitioners of human factors, training, pilots and ground operators, engineers involved in systems design, safety specialists, test evaluators, and accident investigators across multiple domains.

scenario based training with x plane and microsoft flight simulator using pc based flight simulations based on faa industry training standards: *Simulation in Aviation Training* Florian Jentsch, Michael Curtis, 2017-05-15 Simulations have been a fixture of aviation training for many years. Advances in simulator technology now enable modern flight simulation to mimic very closely the look and feel of real world flight operations. In spite of this, responsible researchers, trainers, and simulation developers should look beyond mere simulator fidelity to produce meaningful training outcomes. Optimal simulation training development can unquestionably benefit from knowledge and understanding of past, present, and future research in this topic area. As a result, this volume of key writings is invaluable as a reference, to help guide exploration of critical research in the field. By providing a mix of classic articles that stand the test of time, and recent writings that illuminate current issues, this volume informs a broad range of topics relevant to simulation training in aviation.

scenario based training with x plane and microsoft flight simulator using pc based flight simulations based on faa industry training standards: Lesson Plans to Train Like You Fly Arlynn McMahon, 2021 This guide for flight instructors (CFIs) presents lesson plans in the form of scenario-based maneuver briefings. A rich resource for active instructors, these lesson plans are also helpful to CFI applicants preparing their own materials. Lesson Plans can also be used as a companion book for flight instructors who are following the principles of scenario-based training taught in Arlynn McMahon's first book, *Train Like You Fly: A Flight Instructor's Guide to Scenario-Based Training*. Lesson Plans is designed to work in complement with any syllabus and the FAA Practical Test Standards (PTS) or Airman Certification Standards (ACS). It explains how to teach each maneuver, making the flight instructor's favorite syllabus curriculum even more effective and enjoyable for flight students. Each maneuver briefing features a series of drawings instructors can discuss with their students or replicate in the classroom and an accompanying script to teach from, which includes a story or motivation on the why and how the maneuver is applied in actual flight. Common errors are discussed in the form of keys to success, to positively inspire students to become sound aviation citizens. In addition to the lesson plans, the book includes templates, checklists, and student assignments to build proper flight preparation habits and help determine the student's readiness to act as pilot-in-command. These tools are especially helpful to the flight instructor ahead of the major flight training milestones, such as first solo, solo cross-country, and the checkride. First published in 2011, This new Third Edition updates information to reflect current best practices and adds a new chapter for teaching Basic Instrument Maneuvers--

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flight simulations based on faa industry training standards: Microsoft® Flight Simulator as a Training Aid Bruce Williams, 2013-06-20 PC-based simulations, though touted by many in the aviation community as excellent flight training aids, are not being used to their full potential. This guide and the accompanying CD illustrate how to get the most out of Microsoft® Flight Simulator with general suggestions, specific advice, and practical tools. Student pilots can use the comprehensive information to review specific concepts and prepare themselves for formal flight instruction, while certified pilots can upgrade their navigation skills, learn about advanced aircraft and procedures, and complement their real-world flying with additional hours in the virtual skies. The materials are suitable for flight instructors looking for new tools to use in ground school classes and pre- and post-flight briefings, and virtual aviation hobbyists will welcome the in-depth information on flying in the real world. This new edition has been updated to reflect the latest changes to FAA rules, regulations, and procedures as well as the latest software and technology updates that have occurred since the first edition.

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Qualification Standards for Extended Envelope and Adverse Weather Event Training Tasks (US Federal Aviation Administration Regulation) (Faa) (2018 Edition) The Law The Law Library, 2018-09-13 Flight Simulation Training Device Qualification Standards for Extended Envelope and Adverse Weather Event Training Tasks (US Federal Aviation Administration Regulation) (FAA) (2018 Edition) The Law Library presents the complete text of the Flight Simulation Training Device Qualification Standards for Extended Envelope and Adverse Weather Event Training Tasks (US Federal Aviation Administration Regulation) (FAA) (2018 Edition). Updated as of May 29, 2018 The FAA has determined this rule is necessary to amend the Qualification Performance Standards for flight simulation training devices (FSTDs) for the primary purpose of improving existing technical standards and introducing new technical standards for full stall and stick pusher maneuvers, upset recognition and recovery maneuvers, maneuvers conducted in airborne icing conditions, takeoff and landing maneuvers in gusting crosswinds, and bounced landing recovery maneuvers. These new and improved technical standards are intended to fully define FSTD fidelity requirements for conducting new flight training tasks introduced through recent changes to the air carrier training requirements, as well as to address various National Transportation Safety Board (NTSB) and Aviation Rulemaking Committee recommendations. This final rule also updates the FSTD technical standards to better align with the current international FSTD evaluation guidance and introduces a new FSTD level that expands the number of qualified flight training tasks in a fixed-base flight training device. These changes will ensure that the training and testing environment is accurate and realistic, will codify existing practice, and will provide greater harmonization with international guidance for simulation. The amendments will not apply to previously qualified FSTDs with the exception of the FSTD Directive, which codifies the new FSTD technical standards for specific training tasks. This book contains: - The complete text of the Flight Simulation Training Device Qualification Standards for Extended Envelope and Adverse Weather Event Training Tasks (US Federal Aviation Administration Regulation) (FAA) (2018 Edition) - A table of contents with the page number of each section

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purpose, realism, and discipline. Whether you're a beginner exploring the skies in Microsoft Flight Simulator or an instrument-rated student practicing procedures in X-Plane, this book bridges the gap between virtual flying and real-world aviation. Written for aspiring aviators who crave more than casual gaming, this guide delivers hands-on instruction on everything from cockpit familiarization to IFR approach procedures. Learn to master aircraft control, interpret METARs and TAFs, simulate emergencies, fly SIDs and STARs, and build your own realistic cockpit setup—no matter your budget. Inside, you'll find step-by-step tutorials on real-world aviation techniques adapted for the sim environment, including full flight planning with SimBrief, instrument navigation using Navigraph, and real-time flying with VATSIM or PilotEdge. With a focus on safety, procedural discipline, and professional communication, this book is structured like a true aviation course. You'll also gain access to detailed checklists, emergency procedures, home cockpit design tips, and a glossary of aviation terms to support your continuous learning. Whether you're preparing for a private pilot license or just want to get the most out of your simulator, *The Pilot's Guide to Flight Simulation 2025* transforms your screen into a serious training tool. It's more than a guide—it's a foundation for becoming a confident, competent virtual pilot with real-world habits. Perfect for users of Microsoft Flight Simulator 2020, X-Plane 12, Prepar3D, and FlightGear. If you're passionate about aviation and ready to fly with knowledge and precision, this is the book you've been waiting for. Elevate your sim experience. Train like a real pilot.

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scenario based training with x plane and microsoft flight simulator using pc based flight simulations based on faa industry training standards: *Opportunities for the Employment of Simulation in U.S. Air Force Training Environments* National Research Council, Air Force Studies Board, Division on Engineering and Physical Sciences, Committee on Opportunities for the Employment of Simulation in U.S. Air Force Training Environments: A Workshop, 2015 Simulators currently provide an alternative to aircraft when it comes to training requirements, both for the military and for commercial airlines. For the U.S. Air Force, in particular, simulation for training offers a cost-effective way, and in many instances a safer way in comparison with live flying, to replicate real-world missions. Current technical issues related to simulation for training include simulation fidelity and multi-level security, among others, which will need to be addressed in order for the Air Force to take full advantage of this technology. The workshop held in November, 2014 examined the current status of simulation training, alternative uses, current and future technologies, and how the combination of simulation and live training can improve aircrew training. The scope of the workshop focused on technologies and practices that could be applicable to high-end aircraft simulations.-- Publisher's description

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