

## FLIGHT CREW TRAINING MANUAL

**VOLUME 1 - TRAINING SUPPORT** 



# **Airbus A320 Flight Crew Training Manual**

**Camilla Rothe** 

#### **Airbus A320 Flight Crew Training Manual:**

Airbus A320 Crew Manual Facundo Conforti,2020-03-11 In this manual you as a pilot will learn about main flight concepts and how the A320 works during normal and abnormal operations This is not a technical manual about systems it s a manual about of flight philo sophy This manual is based on the original Airbus manual called The Flight Crew Training Manual which is published as a supplement to the Flight Crew Operating Manual FCOM and is designed to provide pilots with practical information on how to operate the Airbus aircraft It should be read just like a supplement and not for real flight In this case refer to the original FCOM from Airbus Let's start to fly the amazing A320 with our collection of books and Airbus A320 Crew Manual Biblioteca Aeronáutica, 2024-09-13 In this re member it s not a technical manual so enjoy it manual you as a pilot will learn about main flight concepts and how the A320 works during normal and abnormal operations This is not a technical manual about systems it s a manual about of flight philosophy This manual is based on the original Airbus manual called The Flight Crew Training Manual which is published as a supplement to the Flight Crew Operating Manual FCOM and is designed to provide pilots with practical information on how to operate the Airbus aircraft It should be read just like a supplement and not for real flight In this case refer to the original FCOM from Airbus Let's start to fly the amazing A320 with our collection of books and remember it s not a technical manual so enjoy it Management Arif Sikander, 2019-05-22 Aviation has grown leaps and bounds within the last decade Aviation courses and training at all levels have shown an exponential increase around the globe There has been a restricted focus on writing books in this sector of the economy mainly due to the shortage of expertise in this specialist and complex area This book was written with the purpose of meeting this need of the aviation sector Due to the diversified nature of aviation knowledge which includes flying engineering airports allied trades for aircraft and airports airline and airport management and operations education etc one text alone will not suffice and do justice to address all these areas It is envisaged to develop subsequent parts of this book to cover all these knowledge areas This book is the first installment of any subsequent books and explores issues including airline management and operations airline business models airport systems flight operational procedures aircraft maintenance runway safety management systems and air traffic management In particular attention will be given to aspects such as analysis of air traffic in a domestic market runway safety management systems critical success factors for multiple MRO service providers key pain points of the industry to be addressed to move into the future new research on hub airports for international flights new business models for airlines and runway safety management systems This book is useful to aviation managers educators students and professionals interested in any of the above issues

AIRBUS A320. Normal Operation Facundo Conforti,2021-07-08 Welcome to one of the most advanced versions of the Aeronautical Library In this new work of the AIRBUS A320 series we will know the normal operation of the aircraft during a real commercial flight from the city of Malaga Spain LEMG to the city of Valencia Spain LEVC The objective of this manual is

that each reader knows everything that happens during a normal flight from the time the pilots arrive at the airport prepare the cabin develop the flight and until they reach their destination AIRBUS A320 Normal Operation is the ideal complement to the rest of the A320 collection in all its volumes Each step explained with the most precise detail and graphics of the panels that the pilot will operate in each instance of the flight added to the cartography that should be used for a flight of these circumstances And as an added value all communication structures between the pilot and the controller A practical and entertaining guide how only the Aeronautical Library can offer A subject as complex as the operations of A320 it becomes a simple and enjoyable topic to read in this entertaining and didactic manual Airbus A320 Encyclopedia Facundo Conforti, 2022-03-07 In a constantly growing aeronautical industry the demand for professional pilots is increasing Year after year thousands of applicants come to the airlines looking for a job but only a small fraction of them get the job and of that small fraction only a very select group are the pilots who manage to develop their professional careers in a company The other pilots don't get achieve their goals for different reasons one of them is the lack of knowledge that leads them to face challenges that they cannot overcome In this guide we will try to provide each reader with the necessary tools to learn all the most relevant aspects of one of the most flying commercial aircraft in the world A complete guide that covers the knowledge of all the aircraft's systems the Airbus flight philosophy and a complete analysis of the operation of the FMS flight system where the reader will learn to operate the flight computer effectively and in various situations that may occur in real life Finally you will learn all about a normal operation in a complete day as a pilot in command of A320 After learning the contents of this A320 encyclopedia the pilot will arrive at the new job with a solid knowledge of the aircraft he will fly and this will make his learning process within the airline reach the highest academic and professional level INVESTIGATIONS - CRACKED SOLDER JOINT - The Crash of Indonesia AirAsia Flight 8501 Dirk Barreveld, 2016-02-24 On 28 December 2014 an Airbus A320 216 aircraft registered as PK AXC was cruising at 32 000 feet on a flight from Juanda Airport Surabaya Indonesia to Changi Airport Singapore with total occupants of 162 persons The Pilot in Command PIC acted as Pilot Monitoring PM and the Second in Command SIC acted as Pilot Flying PF The Flight Data Recorder FDR recorded that many master cautions activated following the failure of the Rudder Travel Limiter which triggered Electronic Centralized Aircraft Monitoring ECAM message of AUTO FLT RUD TRV LIM SYS The crew tried repeatedly to reset the computers but the autopilot and auto thrust disengaged and the flight control reverted to Alternate Law The investigation showed that the loss of electricity and the RTLU failure were caused by a cracked solder joint All occupants of the plane were killed in the Smart Intelligent Aircraft Structures (SARISTU) Piet Christof Wölcken, Michael Papadopoulos, 2015-09-04 The accident book includes the research papers presented in the final conference of the EU funded SARISTU Smart Intelligent Aircraft Structures project held at Moscow Russia between 19 21 of May 2015 The SARISTU project which was launched in September 2011 developed and tested a variety of individual applications as well as their combinations With a strong focus

on actual physical integration and subsequent material and structural testing SARISTU has been responsible for important progress on the route to industrialization of structure integrated functionalities such as Conformal Morphing Structural Health Monitoring and Nanocomposites The gap and edge free deformation of aerodynamic surfaces known as conformal morphing has gained previously unrealized capabilities such as inherent de icing erosion protection and lightning strike protection while at the same time the technological risk has been greatly reduced Individual structural health monitoring techniques can now be applied at the part manufacturing level rather than via extending an aircraft s time in the final assembly line And nanocomposites no longer lose their improved properties when trying to upscale from neat resin testing to full laminate testing at element level As such this book familiarizes the reader with the most significant developments achievements and key technological steps which have been made possible through the four year long cooperation of 64 leading entities from 16 different countries with the financial support of the European Commission Airbus A320 Besatzungs-Handbuch Facundo Conforti, In diesem Handbuch lernen Sie als Pilot die wichtigsten Flugkonzepte kennen und erfahren wie die A320 im normalen und abnormalen Betrieb funktioniert Es handelt sich nicht um ein technisches Handbuch ber Systeme sondern um ein Handbuch ber die Flugphilosophie Dieses Handbuch basiert auf dem Original Airbus Handbuch The Flight Crew Training Manual das als Erg nzung zum Flight Crew Operating Manual FCOM ver ffentlicht wird und Piloten praktische Informationen zur Bedienung des Airbus Flugzeugs vermitteln soll Es sollte nur als Erg nzung gelesen werden und nicht fr den realen Flug Beziehen Sie sich in diesem Fall auf das Original FCOM von Airbus Fangen wir an den erstaunlichen A320 mit unserer Sammlung von B chern zu fliegen und denken Sie daran es ist kein technisches Handbuch also genie en Sie Advanced Approach Light System Behrend, Ferdinand, 2017-08-25 The constant growth in aviation requires the introduction of new technologies in order to meet the demand for increasing capacity Especially the airport often represents the limiting factor Poor visibility conditions and an insufficiently equipped ground infrastructure regarding navigation facilities can lead to restrictions in maintaining the prevailing traffic flow especially during the approaches The conventional instrument landing system consists of numerous technical components which are causing expenses regarding maintenance and operation Smaller airports are often only partially or not at all equipped with the appropriate ground facilities This can bring air traffic to a total halt during certain visibility conditions New satellite based approach procedures offer the possibility to keep up air traffic even during poor visibility conditions regardless of the ground infrastructure required in the past These also offer now a barometric guidance or an augmented satellite signal for the vertical flight guidance component With the use of these approach procedures there is however the possibility of new faults and errors of the vertical flight guidance signal In a system based on electromagnetic radio waves a fault is angular meaning if the airplane gets nearer to the transmitter on ground the absolute possible failure of the target approach path gets smaller In a satellite based approach on the other hand it is constant during the whole approach The result can be a great deviation from the target approach path

even just before reaching the runway threshold Often only after reaching the decision height and the herewith connected visual contact to corresponding ground features these faults can be recognized during poor visibility conditions close to the minima of a precision approach flight The larger the absolute error to the target approach path the more crucial it gets to initate a missed approach procedure and therefore preventing a drop out of the relevant obstacle clearance limit Research has shown that through the currently present visual characteristics of the approach lighting system the actual position cannot be determined sufficiently regarding the runway threshold and the target approach path in order to estimate the decision height correctly The here presented Advanced Approach Light System is supposed to be an additional visual aid in order to support the cockpit crew in its decisions Therefore it should amount to improve the awareness of the situation regarding constant vertical faults The new navigation lighting system has been integrated into a flight simulator and was tested by licensed airline pilots within two test series with varying visibility conditions and decision heights Next to basic functionality operational usability in existing procedures of practical routines in the cockpit has been evaluated. The results of the test series have demonstrated a significant improvement in identifying vertical faults with the support of the Advanced Approach Light System The decision to initiate a missed approach was made immediate and prompt and therefore the airplane stayed within the obstacle clearance limit even in a low decision height In contrast the trial participants without the new system took reluctant and often far too late decisions which lead to a drop out of the obstacle clearance limit The Advanced Approach Lighting System has significantly improved the situation awareness for pilots in command in recognizing vertical faults when reaching the decision height The integration in existing work routines and its operative use happened flawlessly and was highly accepted by the trial participants Das stetige Wachstum in der Luftfahrt erfordert die Einf hrung neuer Technologien um der Nachfrage nach steigender Kapazit t gerecht zu werden Insbesondere das System Flughafen stellt hierbei oftmals den limitierenden Faktor dar Schlechte Sichtbedingungen und die unzureichende bodenseitige Ausr stung mit Navigationseinrichtungen k nnen fr Einschr nkungen in der Aufrechterhaltung des bestehenden Verkehrsflusses sorgen insbesondere bei Landeanfl gen Das konventionelle Instrumentenlandesystem besteht aus einer Vielzahl an technischer Komponenten die hohen Aufwand hinsichtlich Wartung und Betrieb verursachen Kleine Flugh fen sind oft nur teilweise oder gar nicht mit den entsprechenden Bodenkomponenten ausger stet so dass der Flugbetrieb bei bestimmten Sichtbedingungen vollst ndig eingestellt werden muss Neue satellitengest tzte Anflugverfahren bieten die M glichkeit den Flugbetrieb auch bei schlechten Sichtbedingungen aufrechtzuerhalten unabh ngig von der bisher notwendigen Bodeninfrastruktur Diese bieten mittlerweile ebenso eine auf der barometrischen H henmessung oder einem aufgewerteten Satellitensignal basierende vertikale Flugf hrungskomponente Allerdings besteht mit der Verwendung entsprechender Anflugverfahren auch eine neue m gliche Fehlercharakteristik des vertikalen Flugf hrungssignals Ist ein Fehler beim auf elektromagnetischen Funkwellen basierenden Instrumentenlandesystem winkelf rmig d h je n her sich das Luftfahrzeug dem

Sender am Boden n hert umso kleiner wird die absolute Ablage zum Sollanflugweg ist dieser bei satellitengest tzten Anfl gen konstant ber den gesamten Endanflug Eine gro e Abweichung vom Sollanflugweg auch kurz vor Erreichen der Landebahnschwelle kann die Folge sein Bei schlechten Sichtbedingungen nahe den Minima eines Pr zisionsanfluges kann der Fehler oft erst bei Erreichen der Entscheidungsh he und dem damit verbundenen visuellen Kontakt zu entsprechenden Bodenmerkmalen erkannt werden Je gr er die Ablage zum Sollanflugweg umso entscheidender ist das unverz gliche Einleiten des Fehlanflugs um ein Verlassen der entsprechenden Hindernisfreibereiche zu verhindern Untersuchungen haben gezeigt dass die aktuell vorhandenen visuellen Merkmale der Anflugbefeuerung nicht ausreichend sein k nnen die tats chliche Position bez glich der Landebahnschwelle und des Sollanflugweges bei Erreichen der Entscheidungsh he einzusch tzen Das hier vorgestellte Advanced Approach Light System soll die Cockpitbesatzung als zus tzliches visuelles Merkmal bei der Entscheidung unterst tzen und so zur Verbesserung des Situationsbewusstseins hinsichtlich konstanter vertikaler Fehler beitragen Das neue Befeuerungssystem wurde in einen Flugsimulator integriert und innerhalb zweier Versuchsreihen mit unterschiedlichen Sichtbedingungen und Entscheidungsh hen von lizensierten Verkehrspiloten getestet Dabei sollte neben der grunds tzlichen Funktionalit t auch die operative Einsetzbarkeit in den bestehenden Ablauf der Handlungsroutinen im Cockpit untersucht werden Die Ergebnisse der Versuchsreihen haben eine erhebliche Verbesserung im Erkennen vertikaler Fehler mit Hilfe des Advanced Approach Light System aufgezeigt Die Entscheidung zum Einleiten des Fehlanflugs erfolgte direkt und unverz glich wodurch das Luftfahrzeug auch bei sehr niedriger Entscheidungsh he noch innerhalb des Hindernisfreibereiches blieb Im Gegensatz dazu wurde bei den Versuchsteilnehmern denen nicht das neue System zur Verf gung stand die Entscheidung eher z gerlich und oftmals viel zu sp t getroffen was zu einem Verlassen des Hindernisfreibereichs f hrte Das Situationsbewusstsein der Luftfahrzeugf hrer zum Erkennen vertikaler Fehler beim Erreichen der Entscheidungsh he wurde durch das Advanced Approach Light System wesentlich erh ht Die Integration in bestehende Arbeitsroutinen und der operative Einsatz erfolgten bei hoher Akzeptanz problemlos durch die Versuchsteilnehmer AIR CRASH INVESTIGATIONS MIRACLE ON THE HUDSON RIVER The Ditching of US Airways Flight 1549 Pete Collins, Editor, 2014-04-22 On January 15 2009 about 1527 eastern standard time US Airways flight 1549 an Airbus Industrie A320 214 N106US experienced an almost complete loss of thrust in both engines after encountering a flock of birds and was subsequently ditched on the Hudson River about 8 5 miles from LaGuardia Airport LGA

flight 1549 an Airbus Industrie A320 214 N106US experienced an almost complete loss of thrust in both engines after encountering a flock of birds and was subsequently ditched on the Hudson River about 8 5 miles from LaGuardia Airport LGA New York City New York The flight was en route to Charlotte Douglas International Airport Charlotte North Carolina and had departed LGA about 2 minutes before the in flight event occurred The 150 passengers and 5 crewmembers evacuated the airplane via the forward and overwing exits One flight attendant and four passengers were seriously injured and the airplane was substantially damaged beyond repair The National Transportation Safety Board determines that the probable cause of this accident was the ingestion of large birds into each engine which resulted in an almost total loss of thrust in both engines

and the subsequent ditching on the Hudson River

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