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Global and Regional 20-year ForecastsICAO JournalTraining and Assessing Non-Technical SkillsAdvanced Analytics and AICompetency-Based Education in AviationIATA Two-day Conference in Association with the RAeS IATA Training and Qualification Initiative (ITQI).Airlines InternationalCrew Resource ManagementEngaging the Next Generation of Aviation Professionals

"This forecast represents an independent study of civil aviation personnel dynamics for the next 20 years and contributes to the unbiased aviation data and traffic forecasts for which the International Civil Aviation Organization (ICAO) is recognized. Its exclusive findings are based on first-hand information collected from different air transport industry stakeholders. Executives of airlines, maintenance, repair and overhaul organizations; aircraft manufacturers; air navigation service providers; and civil aviation authority officials with a professional interest in air transport human resource planning will appreciate this first edition of one of the foremost works in the field. Training institutions, future aviation professionals, as well as aviation consulting businesses, will also consider it a valuable resource."--Publishers Web site.

Whether a trainee is studying air traffic control, piloting, maintenance engineering, or cabin crew, they must complete a set number of training 'hours' before being licensed or certified. The aviation industry is moving away from an hours-based to a competency-based training system. Within this approach, training is complete when a learner can demonstrate competent performance. Training based on competency is an increasingly popular approach in aviation. It allows for an alternate means of compliance with international regulations - which can result in shorter and more efficient training programs. However there are also challenges with a competency-based approach. The definition of competency-based education can be confusing, training can be reductionist and artificially simplistic, professional interpretation of written competencies can vary between individuals, and this approach can have a high administrative and regulatory burden. Competency-Based Education in Aviation: Exploring Alternate Training Pathways explores this approach to training in great detail, considering the four aviation professional groups of air traffic control, pilots, maintenance engineers, and cabin crew. Aviation training experts were interviewed and have contributed professional insights along with personal stories and anecdotes associated with competency-based approaches in their fields. Research-based and practical strategies for the effective creation, delivery, and assessment of competency-based education are described in detail.

Providing a practical guide to the training and assessment of non-technical skills within high-risk industries, this book will be of direct interest to safety and training professionals working within aviation, healthcare, rail, maritime, and other high-risk industries. Currently, each of these industries are working to integrate non-technical skills into their training and certification processes, particularly in light of increasing international regulation in this area. However, there is no definitive guidance to assist practitioners within these areas with the design of effective non-technical skills training and assessment programs. This book sets out to fully meet this need. It has been designed as a practically focussed companion to the 2008 book Safety at the Sharp End by Flin, O'Connor and Crichton. While Safety at the Sharp End provides the definitive exploration of the need for non-technical skills training, and examines in detail the main components of non-technical skills as they relate to safe operations, the text does not focus on the "nuts and bolts" of designing training and assessment programs. To this end, Training and Assessing Non-Technical Skills: A Practical Guide provides an extension of this work and a fitting companion text.

Engaging the Next Generation of Aviation Professionals is an edited volume that brings together a diverse set of academic and professional perspectives within the three themes of attracting, educating, and retaining the next generation of aviation professionals (NGAP). This compilation is the first academic work specifically targeting this critical issue. The book presents a rich variety of perspectives, academic philosophies, and real-world examples. Submissions include brief case studies, longer scholarly works from respected academics, and professional reflections from individuals who have made important contributions to their field. The book includes academic chapters that explore the topic from a more theoretical standpoint yet are accessible and understandable to a professional audience. These are complemented by both broad and specific practice examples that describe initiatives and applications occurring in the industry around the three themes. All submissions include descriptive insights, experiences, and first-hand accounts of accomplishments, intended to support the work of other professionals managing NGAP issues. This work will be valuable to anyone involved in attracting, educating, or retaining NGAP, including academics, operators, national and international regulators, and outreach coordinators, among many others.

Official magazine of international civil aviation.

The new edition of Crew Resource Management reflects advancements made in the conceptual foundation as well as the methods and approaches of applying CRM in the aviation industry. Because CRM training has the practical goal of enhancing flight safety through more effective flight crew performance, this new edition adapts itself to fit the users, the task, and operational and regulatory environments--all of which continually evolve. Each contributor examines techniques and presents cases that best illustrate CRM concepts and training. This book discusses the history and research foundation of CRM and also stresses the importance of making adaptive changes and advancements. New chapters include: CRM and Individual Resilience; Flight and Cabin Crew Teamwork: Improving Safety in Aviation: CRM and Risk Management/Safety Management Systems; and MRM for Technical Operations. This book provides a deep understanding of CRM--what it is, how it works, and how to practically implement an effective program. Addresses the expanded operating environment--pilots, flight attendants, maintenance, etc. Assists developers and practitioners in building effective programs Describes best practices and tools for supporting CRM training in individual organizations Highlights new advances and approaches to CRM Includes five completely new chapters

Be prepared for the arrival of automated decision making Once thought of as science fiction, major corporations are already beginning to use cognitive systems to assist in providing wealth advice and also in medication treatment. The use of Cognitive Analytics/Artificial Intelligence (AI) Systems is set to accelerate, with the expectation that it'll be considered 'mainstream' in the next 5 – 10 years. It'll change the way we as individuals interact with data and systems—and the way we run our businesses. Cognitive Analysis and AI prepares business users for the era of cognitive analytics / artificial intelligence. Building on established texts and commentary, it specifically prepares you in terms of expectation, impact on personal roles, and responsibilities. It focuses on the specific impact on key industries (retail, financial services, utilities and media) and also on key professions (such as accounting, operational management, supply chain and risk management). Shows you how users interact with the system in natural language Explains how cognitive analysis/AI can source 'big data' Provides a roadmap for implementation Gets you up to speed now before you get left behind If you're a decision maker or budget holder within the corporate context, this invaluable book helps you gain an advantage from the deployment of cognitive analytics tools.