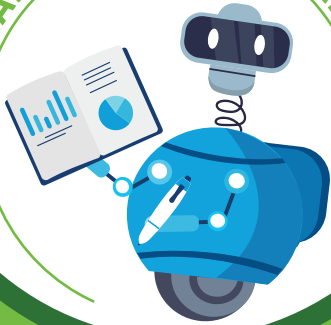


HUMAN FACTORS SPECIALIST



JOB DESCRIPTION

Human Factors Specialists optimize human-system interactions to enhance safety and performance in aviation. They design cockpit layouts, procedures, and operational environments to align with human capabilities and limitations. Their work ensures that aviation systems are intuitive, reducing errors and improving efficiency.

SALARY

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DAILY ROUTINE

A Human Factors Specialist's day includes analyzing human performance data, conducting usability tests, and participating in design reviews. They collect data from simulations and incident reports, collaborate on safety improvements, and ensure regulatory compliance. Meetings, research, and reporting findings are key daily tasks.

IMPACT ON PRIVATE LIFE

This career offers intellectual fulfillment and flexibility but comes with challenges. Irregular hours, travel, and high-stress situations can impact work-life balance. Continuous learning is required, which may interfere with personal time.

SKILLS AND COMPETENCIES

Key skills include human behavior analysis, aviation knowledge, HMI design, safety management, and risk assessment. Specialists must be proficient in research, data analysis (SPSS, MATLAB), and ergonomic system design. Soft skills like problem-solving, communication, and adaptability are crucial for optimizing human-system interactions.

SELECTION CRITERIA

Human Factors Specialists need expertise in aviation systems, human performance, and safety-critical design. A graduate degree in Human Factors, Ergonomics, or Aeronautics is essential. Familiarity with aviation regulations (EASA, ICAO) is required, along with experience in accessibility standards and cognitive workload analysis. Specialists ensure safe and inclusive aviation environments.

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EDUCATION

A bachelor's in psychology, engineering, aeronautics, or cognitive science is needed. A master's in Human Factors, Aviation Safety, or Ergonomics is often required. Certifications (e.g., EAAP) and industry training enhance expertise.

YEARS OF TRAINING REQUIRED

Becoming a Human Factors Specialist takes 8-10 years: a bachelor's (3-4 years), a master's (1-2 years), 1-2 years of certification and industry training, plus 2-5 years of professional experience.