List of Competencies for Competency Assessment

The following section describes the competencies categorised regarding comprehensive understanding of human, approaches and methods, transverse core competencies and aviation-specific competencies, as are required for different areas of practice (AoP).

In each description, the following notations are included: **M** = **Mandatory**, **R** = **Recommended**, **N/A** = **Not Applicable**. These indicate whether the competencies are mandatory, recommended or not applicable to AVPSY or AVHFS considering accreditation.

1. Global Aviation-System/ Domain Knowledge

# Title	Short Description	Knowledge	Skills	A	ttitudes
-	king Acquisition of suitable aviation les, specific knowledge and overview o the entire aviation system, fo example: Airline and airporn operations, flight and airborne systems, ATC, aviation engineering ground handling, military operations AVPSY: M AVHFS: M	 f positions, and peculiarities, (jobs, vocabulary task demands) Know characteristics of operator profiles (e.g., pilot education principles, responsibility for safety, stay vigilant all time, resilience etc.), the 	• • r e f t e c , 1 d s n r , 3	Technical understanding Human-system / human- automation understanding Keep in mind the future evolution of operators and the operator environment	 Openness and interest in new developments Be motivated to immerse and/or train in the aeronautical world Consider the moral sense of safety

	COMPETENCY LIST FOR ENDORSEMENT OF AVIATION PSYCHOLOGISTS & HUMAN FACTORS SPECIALISTS FIRST EDITION 14.12.2022							
	Title	•	0	Skills	Attitudes			
	Knowledge about relevant Aviatio regulation, rules of application standards, and recommended practice	This includes a thorough knowledge of current and updated regulations as published by international and national authorities (ICAO, EASA/EC/EU, CAA, FAA) including rules of application, standards (e.g., aircraft certification standards) and recommended (best) practices and guidance material and acceptable means of compliance as published by industry bodies such as IATA, EUROCONTROL, IFATCA, IFALPA etc., that govern the fields of application of APSY and AHFS AVPSY: M (AoP) AVHFS: M (AoP)	 (ICAO), European (EU law, EASA) and national level of civil aviation including regulatory functions (EASA, NSAs) Understanding the rulemaking structures and procedures in force at various levels Thorough understanding of the differences between binding regulation, implementing rules, applicable standards, and norms, recommended practices, means of compliance and non-binding guidance material 	 requirements relevant and applicable for the area of practice (e.g., Part-ARO, Part-MED) Identifying and applying best practices, norms, standards in your area of practice Complying with/ encouraging compliance with relevant regulatory requirements Promoting reasons for rules and regulations (why it makes sense to follow the rules with a light on aviation safety) 	 and comply with applicable legal requirements Follow a rule- and standards-oriented approach in development of working procedures Attitude towards improving the way in which rules and regulations are reasonably applied in practice - identifying gaps 			
1.3	Understanding Aviation languag (terminology)	e Understanding the colloquial language (terminology, abbreviations etc.) of people that AVPSY and AVHFS work with is essential to optimizing human performance and safety. Learning the aviation technical language (incl. ATM, Maintenance and Operations) is highly recommended to all AVPSY & AVHFS. AVPSY: M (AoP) AVHFS: M (AoP)	 aeronautical communication (ICAO phonetic alphabet and numbers, morse code, light signals, military interception signalling, and standard phraseology) Knowing aviation technical terms including 	 (alpha, bravo, charly) and numbers (zero, one, two, tri, niner etc.) (in communications with pilots and other aviation personnel Being able to understand standard phraseology, ideally having completed a radiotelephony certificate Being able to speak and understand aviation technical terms (e.g., Aviation call-signs, aircraft nicknames, ICAO airport designators, runway directions, compass rose etc.) Able to explain psychology/HF terms in easy language so operational staff 	 learning, being assertive, when in doubt Being able to explain technical terms in aviation psychology and HF in a language operational staff can understand Generating trust by speaking operational language, so aviation personnel open and addresses issues 			

2.	Knowled	lge about	Humans*

#	Title	Short Description	Knowledge	Skills	Attitudes
2.1	Basic education in psychology	Manage the application of knowledge, skills and attitudes based on psychology to ensure a positive impact on safety, quality, efficiency health and security, and balancing individual and other stakeholders' interests. AVPSY: M AVHFS: N/A	 General psychology, Neuropsychology Psychobiology, Cognitive psychology, Differential psychology, Social psychology, Developmental psychology, Personality psychology, Work and organisational psychology (AoP), Clinical & Health psychology (especially AVPSY Clinical AoP), Psychopathology (especially AVPSY Clinical AoP) Professional roles may be described as: Clinical or Industrial / Occupational Psychologist, Company Psychologist or Performance Psychologist, Human Factors Specialist/Lead, Human Performance Specialist, Human Systems Engineer, Researcher, Investigator, These roles may work for a range of organisations such as operators, service providers (ATC), regulators or		
2.2	subject aligned to	A Manage the application of knowledge, skills and attitudes based on a human factors-related -discipline to ensure a positive impact on safety, quality, efficiency, health, and security; and balancing individual and other stakeholders' interests. <u>Note</u> : Psychology is often considered to be part of the HF discipline, for the purposes of EAAP competency evaluation it is treated as a separate field to allow for the two endorsements to be defined. AVPSY: N/A AVHFS: M (AoP)	example: Engineering, Physiology, General Human factors or Safety, Medical sciences, or profession specific training such as nursing, physiotherapy, safety management), or professional training alongside a post-graduate degree (e.g., an ATPL and master's degree in HF). Other degrees may be considered on review by the board		Seek continuous professiona development in their field o expertise. Be open to the methods and terms used by othe disciplines involved in worl within the aviation system.

	COMPETENCY LIST FOR ENDORSEMENT OF AVIATION PSYCHOLOGISTS & HUMAN FACTORS SPECIALISTS FIRST EDITION 14.12.2022							
#	Title	Short Description	Knowledge	Skills	Attitudes			
2.3	Individual Behaviour	behaviour to enhance the p individuals based on physical of influences while en- balance between humans, tasks organisations is maintained. AVPSY: M AVHFS: R (AoP) Manage the application of prince individuals in groups based of psychological influences whil	 Individual Human performation interaction of cognition, motividial systems, and Individual Human performation procession of the visual, audisensory system; and vestibular Performance of the visual, audisensory system; and vestibular Cognitive functions & cognition perception, information procession making & macrodia awareness, problem solving, plice personality Personality Psychometrics: psychological testing Motivation, volition & action Human learning and training Emotion and emotional regulation (Mental) Workload & stression The origins, features, and impation in groups and teams. Organisational development, stinfluence on people. 	 concepts from the knowledge s to specific areas of practice. Explain how individual differences of practice with the client and their of what actions, interventions of will be most effective for them Identify systemic HF issues organisation, and raise aware their impact on individuals, a manage the issues. Deal with the specific cognitive and motivational demands of of individuals. Identify and work with group pl in organisations. Identify and work with group pl in organisations. Identify and work with group pl in organisations. Manage the impact of group be Apply an understanding of grou to organisational activitie aviation. 	ection (left) Core Skills and Attitudes" rences and nage them. ontext, and r treatment within an eness about and how to , emotional, perators on henomenon Refer to "Common Supporting Core Skills and Attitudes" haviour. p behaviour			
2.5	Mental Health Wellbeing	wellbeing and mental disorders to treat /support individuals and g mental health. Practice is based on clinical ps and detection of problems, whil protection of the individual's need	 Differentiation between psych psychological disorders (Only AV e balancing the s and rights and ds. Promoting Differentiation between psych psychological disorders (Only AV e International Classification of WHO and Diagnostic and Statis Disorders (DSM-5) by APA (Only e Concepts of psychological instr 	education/projects to raise the of mental wellbeing in aviation, emphasis on well-being, de stressors and fatigue. • Teamwork and cooperation: be aeromedical teams/ i organizations/ associations wh can work on the implementation	ealing with eing part of institutions/ here AVPSY on of clinical tation/rules			

Title	Short Description	Knowledge	Skills	Attitudes
6 Human Physiology	Manage the application of knowledge on huma physiology to enhance performance and wel being while ensuring a balance between humans tasks, systems, and organisations is maintained. AVPSY: R (AoP) AVHFS: M (AoP)		 differential psychodiagnosti interpretation of the results in accordant with ICD or DSM standards and act according to the proposed aeromed regulations. Close professional cooperation a communication with AMEs. Awareness of the impact of physiology human performance in an aviation contect Providing advice to mitigate/ anticipate effect of the aviation and organisation environment on individuals a their performance, based on best practic scientific literature, and relev regulations 	cs, nce ing ical and on Refer to "Common Supportir ext Core Skills and Attitudes" the nal and ses,

*Additional information for understanding the human

Visual sensory system: Vis. Environment, reception, anatomy, processing, performance aspects: Colour, light, optics, acuity, contrast, night vision, sensory/cognitive processing, and performance (depth / spatial perception, visual search, detection, discrimination), influence on cognitive performance and emotion, individual differences

Auditory sensory system: Amplitude, frequency intensity, loudness, pitch, sensory/cognitive processing, and performance (detection/localisation, speech recognition, noise impacts, masking..., individual differences) (HF/AP) Vestibular senses: Functions/ principles/concepts – (for aircrew, space environment, individual differences)

Principles/ concepts of cognitive functions & cognition: attention/selective/divided attention, mental workload, task sharing, perception, working memory, long-term memory (limits, implications for design of workplace) Principles/concepts of Decision Making: Types of decisions, situation awareness, planning bias in DM, Situational Awareness, measuring, avoiding/mitigating human bias, problem solving (principles, troubleshooting, human error), planning Concepts / principles of fatigue: vigilance, arousal, sleep disruption, deprivation, circadian rhythm; understand impact of fatigue for aviation operators (shift work), tools to manage fatigue at work (FRMS) Principles/concepts of Motivation: alienation from the job - people at a certain time in their career seem to 'drift away' from the centre of their industry and organisation. Losing the dedication to the job and the motivation required to sustain and stay focused.

Concepts / principles of Stress: Types of stressors (environmental, psychological, life-stress, workload induces stress), impacts of stress on performance (mental, physical, short-long-term impacts...), stress measurement (physiological measures, other), stress re-mediation, physical / mental stress alleviation)

Concepts / principles of Workload: task load, timeline, overload, (mental) workload measurement, re-mediation and avoidance, human and performance impacts

Concepts/principles on teams and groups: Social psychology of groups; behaviour, crew/team performance, communication, decision making

Group/Crew/Team oriented training & development: communication, teamwork, trust, team coordination/collaboration, training / interventions methods - TRM/CRM/coaching, conflict mediation Human-Machine Interface: Technical and operational aspects including people issues to better understand what operators face

Human adaptability to change: Shift roster / schedule changes, airspace changes, procedural changes, changes in the Controller Working Environment / working position, management changes.

Clinical-psychological questions/mental health & wellbeing: Concepts of behaviour, appearance, communication, speech, mood, thinking, perception, sleep, cognition, thought process, thought content, judgment, significant life events and insight. Verbal / non-verbal. Deficit / disease / disorder; Abuse of psychotropic substances; Mood disorder; Psychotic disorder; Schizophrenia, schizotypal or delusional disorder; Abuse of psychotropic substances; Mood disorder; Personality or behavioural disorder; depression, anxiety, panic attack, insomnia, etc.), psychological conditions, patient/client, clinical report. AME/psychiatrist, aeromedical team, to self-report, to report, (privilege of) licence, sick leave, fit - unfit, suspension, release, semi-annual / annual aeromedical examinations, qualifying and disqualifying, requirements, prevention, confidentiality, communication, medical documentations, regulators and regulations - medical parts, diagnosis, treatment plan, hospitalization, counselling, psychotherapy, International Classification of Diseases (ICD - 11) by WHO, Diagnostic and Statistical Manual of Mental Disorders (DSM-5) by APA, medications (e.g. antidepressants), risk assessment, support, help, cure, safety, health, Critical Incident Stress Management (CISM), Class 1 and class 2 medical certification. AP and peer supporters based on relevant training)

#	Title	Short Description	Knowledge	Skills	Attitudes
3.1	Human in System/ overarching methods	Identify, decide, design, explain and implement the most adequate methodological approach to achieve the expected objectives AVPSY: M AVHFS: M (AoP)	5 5	 Form and implement a strategic or technical approach Select a practical approach and understand how to apply the knowledge in company Search AVPSY/AVHFS competences depending on the type of studies Speak an operational and systems language and tie own language in the middle Oversee HF input into design / procedural changes for the organisation 	 Be open and take the problem larger than only on psychology (for example psycholinguistics)
3.2	Validation/ Measurement	Identify, decide, design, explain and apply adequate methods, tools, and measurements AVPSY: M AVHFS: M	 Knowledge on methods, tools & measurement such as System evaluation methods (heuristics cognitive walkthrough, usability testing in-service-evaluation), Study design (sampling, one factor multiple factors, within / betwee subjects, mixed); depending o validation-phase (exploration verification, validation) - measuremen & data analysis, statistical / logica conclusion (statistical / practica significance), type I / II error communicating results) (HF) Root cause analysis, Timeline analysis Task analysis * Knowledge of sequential accider models, epidemiological models an system accident models, risk, an hazard models 	 Identify suitable tools depending on the design phase, scope, and requirements (e.g., regulatory, temporal demand) of an expected study r, n n n	sceptical attitude to
3.3	Observation & Interviews	Ability to gather information by interviewing and observations in clinical (anamnesis), and industrial settings AVPSY: M AVHFS: R		 Apply and demonstrate the knowledge or conducting the interviews and observations Focus on details (key verbal and non-verbal) Ability to observe Ability to differentiate routine vs non-routine /critical situations 	Structure of the work

3. Methodological Approaches & Tools

#	Title	Short Description	Knowledge	Skills	Attitudes
			* Reliability and validity of interviews; information processing; combining document analysis and interview	, , , ,	 Critical thinking and the ability to analyse the information, select and differentiate the important from non-important information Being mentally present and self-aware
3.4	Study Design/Experimental / laboratory studies	Ability to conduct adequate experimental /studies AVPSY: M AVHFS: M (AoP)	 Know which experimental designs exist (field study vs. laboratory experiment., independent/dependent/control variables, univariate versus multivariate, factorial design, designs for small sample sizes, random assignment) Knowledge of measurement statistics, statistical vs. practical significance, measurement error, generalisation, prediction & error) 	 Design a protocol that allows a thorough conclusion Interpret outputs Recognise when experimental design is adequate Prepare, conduct, analyse and report of experimentations (e.g., real-time simulations in ATC, cockpit, air/ground coupled evaluations) Laying out the validation strategy, the validation plan, and the final validation report 	mindset and curiosity about study design • Critical thinking
3.5	Job and Task Analysis	Including defining a job domain/ role, job descriptions and advertisements, creating performance appraisals, breakdown of a complex task into component tasks to identify different knowledge, skills and attitudes needed. Commons methods include Hierarchical task analysis, job demand surveys, cognitive/item tasks analysis, task inventories. For details on job analysis for air traffic control please refer to a recent review paper (Wium & Eaglestone, 2022) AVPSY: M (AoP) AVHFS: M (AOP)	 Knowing fiscory of job analysis and main findings for aviation personnel (e.g., civi vs. military ATCOs, pilots, engineers etc.) Knowing commonly used job and task analysis methods in Aviation (Fleishman Job Analysis Survey, Critical Incident Stress Technique, cognitive task analysis, role modelling etc.) 	 task analysis using scientific methods and validated instruments Being able to draw conclusions and interpreting results in the context of relevant norms 	standards in conducting job and task analysis

#	Title	Short Description	Knowledge	Skills	Attitudes
3.6		ta Application of adequate statistical studies AVPSY: M AVHFS: R (AoP)	 Quantitative vs. qualitative da analysis Univariate vs. multivariate statistics Working knowledge of packages lil SPSS; statistical analysis; know adequa methods for dealing with small samp size vs large surveys and "big data" Understand difference between explotory analysis and data fishing Recognise when statistical method adequate or not depending on the experimental design Understand principle of significance ar statistical/logical conclusion 	ta • Apply statistically correct analysis depending on data and method ke te ole ra is he	
3.7	Training	Application of educational activities aiming to enhance the knowledge, skills, behaviour, and attitude of aviation personnel to (better) perform specific tasks AVPSY: R (AoP) AVHFS: R (AoP)	learning and instruction methodology	 modules Implement and conduct training Perform training evaluation Develop and apply presentation and instruction skills in I / to 	desire to support trainees to performBeing clear in expression

Other methodological Approaches & Tools

#	Title	Short Description	Knowledge	Skills	Attitudes	
3.8	development	Application of specific methodologies and processes of developing new, valid, and reliable tests and measures of performance, attitudes, skills, or abilities and or to improve existing ones for objective, fair and effective selection, or placement of people to specific jobs and tasks AVPSY: M AVHFS: N/A	 behaviour; and how to assess and measure them Understand job and task requirements or human cognitive / physical / emotional factor Knowledge of qualitative / quantitative 	 Develop, t Conduct te analysis to for reliabil Apply corr evidence performar Demonstra developed 	 est, and select items/ scales Being systemate attention to de attention to de provide statistical evidence ity and validity of test scores ect methods to establish for criterion (job) nce validity the practical benefit of using Being systemate attention to de attent	tic and paying etail ive solutions t-systematic ection nal en evaluating data of psychometric considerations
3.9	Treatment	Application of specific diagnostic knowledge and skills, counselling/therapeutic knowledge, theories, and techniques to support and help the individual in need AVPSY: M (AoP) AVHFS: N/A	, clinical diagnosis: setting, clinical , interview, clinical tests.	 through the conducting Critical thing Focus on conclusion Communication 	0	information and

#	Title	Short Description	Knowledge	Skills	Attitudes
3.10	Clinical Support to peer support	Application of specific diagnostic knowledge and skills, counselling/therapeutic knowledge, theories, and techniques to support and help the individual in need. AVPSY: R (AoP) AVHFS: N/A	Difference: Clinical Support conducted by Clinical AP (CAP) vs Peer-support conducted by trained peer.	 CAP: Demonstrates the application or clinical psycho-diagnostic assessment and integration of the results. Decision making and plan of the treatment: further psychiatric interventions, diagnosis, psychotherapy/counselling/developm ental support. Peer-support: Demonstrates basic listening and counselling skills Demonstrates the structure of the talk, call; application of the interventions in crisis, awareness, and the application of setting the boundaries. 	 Being empathic. Being open-minded. Being flexible and tolerant. Having no prejudices, no judgment. Being calm and patient. Attention to details. Being self-aware. Continuous path of self-analysis and self-development. Self-confident. Practice mindfulness.
3.11	Competency Assessment	Ability to identify, apply and support in practice the knowledge and effectiveness of organisations and people to accomplish organisational change and performance regarding operators' competencies AVPSY: M (AoP) AVHFS: R (AoP)	competenceUnderstanding and knowledge of competence	 context, processes, and procedures as the basis for assessment Identify relevant cognitive/ physical , emotional requirements expressed behaviour / performance Apply professional judgement based on evidence and valid observation data, and measurement 	 in assessment Seeking fairness in conducting assessment Being objective and applying professional judgement Checking judgement agains
3.12	Personnel recruitment & selection	Application of processes, practices, and tools in human resource management to acquire or retain people that best fit the demands of the tasks, jobs and the (operational) environment according to their mental (psychological) strength, behaviour, and personality to meet the operational (safety) demands, and the goals and objectives of the employing organisation.	 Know/understand principles, methods processes, and tools to select and recrui aviation (operational) personnel Understand psychometric quality standards Understand R&D methods of test construction and validation of selection methods Knowledge / understanding of the mental psychological, physical, behavioural, and 	 t methods in test composition for specific candidate groups Conduct selection studies and trials Apply appropriate mathematica methods to establish test scores / composites Design appropriate methods for 	 decision making Appreciating diversity or candidates Being aware of sources for bias and reduced levels of objectivity Being systematic and strictly

#	Title	Short Description	Knowledge	Skills	Attitu	udes
		AVPSY: M (AoP) AVHFS: R (AoP)	 Understand the mathematical and statistical methods for scoring, cut-offs, composites in selection decision making and recruitment Understand selection decision making failure and principal error types 	n	Collect and store candidate test and appropriate personal data for subsequent validation studies Collect / use appropriate criterion data (training / simulator data, job performance, observation scales) Apply appropriate data protection	Follow and appreciate the technological, operational, and organisational developments in the work environment / working positions of personnel Ethical behaviour
3.13	Organisational design and development	Ability to identify, apply and support in practice the knowledge and effectiveness of organisations and people to accomplish organisational change and performance regarding organisational design AVPSY: M AVHFS: R (AoP)	values, structures, design, and culture o organisations and business, and operationa	of al t s, l, t t al e d of e f b s n	Apply methods in organisation design, management, leadership, personnel, performance and project management, work organisation and work schedule Conduct analysis of data / info from documents, workshops, brainstorming sessions, interviews, observations, surveys, questionnaires at organisational, group, and individual level Provide feedback and input to strategy, design, and development Develop or advise on specific methods and tools at various organisational levels Advise / apply on methods and approaches in management of change Identify weak points in company's processes and procedures; working environment; relationship among staff members.	Being systematic and structured in the approach Show a clear, unbiased, and competent attitude to organisational issues Demonstrate stability and 'standing' in dealing with critical situations at all organisational levels Be knowledgeable and keep overview of processes and steps and the continuous developments at management and organisation level Be flexible and adaptable to changes * Be able / competent to shape and influence the course of developments at organisational levels

•	Title	Short Description	Knowledge	Skills	Attitudes
14	Systems, Tasks & Operations	fAbility to set-up, produce and report the application of psychological and HF knowledge in system/task/operations design and validation AVPSY: M (AoP) AVHFS: M	 verify new ways of working and design aligned with regulations and standards Know engineering models (V&V Agile, Sprint) 	s engineering to ensure adequate timin and added value	g evolutions Interested in the relationsh between humans and machine and in building an equitab relationship Keep the future in mind s d b c c c c c c c c c c c c c
15	Human Factors in Safet Management System (SMS)	Application of HF risk assessments, sinvestigations, audits, surveys, and interpret the results in a safety management context, AVPSY: R (AoP) AVHFS: R (AoP)	factors risks in safety management systems,	 Perform a HF risk assessment, Build a HF safety case, Perform a root cause analysis highlighting HF issues, Perform a HF investigation and giving HF recommendations Perform a HF audit/ normal operation safety survey 	 Belief that the human factor is part of a larger system design, and that behaviour is influence by the system design The human is only as good as the system in which he/she works Consider HF as most importan asset in the organisation Anticipate that humans and systems are never perfect
16	Methods for Psycho physiological Assessment	-Application of specific methodologies based on psychophysiological measures (ECG, EEG,) AVPSY: R (AoP) AVHFS: R (AoP)		 Know how to collect and analys psychophysiological data 	

#	Title Short Description		Knowledge	Skills	Attitudes		
# 3.17		& Application of measures to support /transformation & change al	 Knowledge Comprehensive understanding / knowledge and experience of: Processes, drivers, enablers, conditions, social / psychological /organisational impacts of (organisational / technical / operational) change Conditions, complexity and dynamics of change and transformation processes Organisational development, leadership and management culture and relation to change / transition Methodology, tools, and approaches of management of change Principles of performance management Principles of coaching and short forms of counselling 	• • • • • • • • • • • • • • • • • • • •	 Participate and contribute to strategic planning, diagnosing, and implementing change at organisation / corporate level Organise and conduct workshops, hearings, meetings, interviews etc. at various levels Diagnose / analyse/ assess / evaluate strength / weaknesses (SWOT) at various levels Apply methods and tools at individual, group organisational level (coaching, training, moderation, team-development) Participate and support social dialogue / partnership PM (Performance Management): Participate and support social dialogue 		
3.18	Safety Climate and Jus Culture Assessment	st Application of measures for (safety and just) culture in an organisation and development of a (safety and just culture) action plan to improve, measure behaviour changes as success criterion Keywords: Culture assessment / development (safety, security, just culture, organisational culture, management culture, reporting culture) AVPSY: R (AoP) AVHFS: R (AoP)	 culture and climate - culture is based on underlying assumptions, values, beliefs, attitudes of operational staff at work, it is their personal reality and not the ideal world, people behave in line with their values and beliefs, it is difficult to change culture Knowledge about different cultures (safety, 	•	assessments the wor Develop action plans to continues	curiosity about how k on Safety Culture to develop, and how i best applied to the ndustry.	

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#	Title	Short Description	Knowledge	Skills	Attitudes			
			 Knowledge about safety culture action development plans and interventions to improve safety and just culture, link to safet culture as enabler for effective safet management 	о У				

4. Areas of Practice (AoP)

#	Title	Short Description	Knowledge	Skills		Attitud
4.1	Regulations & Standards	Manage the application of rules and standards at the leve suitable for the field of application AVPSY: M (AoP) AVHFS: M (AoP)	pertaining to assigned AP work task		Analytical skills (e.g. identification of legal , regulatory deviations in the structures, processes, o practices of the work environment) Planning and development skil (e.g., compliance activities based on regulations & standards) Collaboration skills (collaboration skills authorities/regulators i required by position o assignment (i.e., during safety audits)	r c c l s c f f
4.2	Scientific Research	Manage the application of knowledge, skills and attitudes based on psychological discipline to efficiently achieve expected targets in research AVPSY: R (AoP) AVHFS: R (AoP)	 (e.g., interview, observation, questionnaire, focus groups, literature 		Skills in adapting the application of human science and research methodology to aviation Capability to face critica questions why "More research is needed" Competence in providing research / scientific facts as best answers to real world problems whilst acknowledging that the solution may be associated with some level of uncertainty Maintain links to the research community	

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Rigorousness in respecting and following regulations and standards Being analytical and systematic in diagnosing legal and regulatory aspects of the work environment Questioning mind-set

Confidence and conviction in science and research as a basis for progress in aviation Innovative thinking

#	Title	Short Description	Knowledge	Skills	Attitud
			 Understand the organisational context of research projects (e.g., contract based, limited degrees of freedom, organisational strategies impacting individual research possibilities) Know where to find relevant research outputs & literature sources 	research trends to apply evidence-based practices	
4.3	Design and Evaluation of systems, technologies, jobs, and/or organisational structures		cation of competencies on two. Human, 3. Meth	nod & Approaches and 5. Common Supp	orting C
4.4	Individual/Group/Organisational Behaviour and working environments (incl. CRM/TRM/MRM, organisational, impact of stressors, social and behavioural psychological principles, influence on culture)				
4.5	Management of Change & Transformation / Culture / organisational Wellbeing / Coaching				
4.6	Human Performance & Safety: risk assessment, incident & accident investigation, human error, safety management,	-			
4.7	Workforce Management recruitment, selection, training design, Competency Assessment & evaluation, leadership & management influence,				
4.8	Influencing human performance and reliability physiological and psychological features, sensory and cognitive functions including decision making				

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g Core Skills and Attitudes is adapted

5. Common Supporting Core Skills and Attitudes

#	Title	Short Description	Knowledge	Skills	Attitudes
5.1	Communication	Effective verbal and written communication AVPSY: M AVHFS: M	 Understand the need of adapting communication to the level and role of interlocutor. Understand existing communication models and styles Understand the facilitation value in communication and persuasion. Knowledge of concise and precise factual report writing 	 Awareness of the impact of communication on different interlocutors. Apply facilitation and moderation techniques Apply active / emphatic listening Concise, precise, and articulate speaking Presentation, persuasion, and negotiation skills 	 Self-confidence Openness and attention
5.2	Reflection, Evolution & Openness	Reflective Practice/Continuous Learning & Openness AVPSY: M AVHFS: M	 Understand the need for reflective practice and continuous learning Understand that knowledge is not fixed over time 	 Searching for and use of results from research and development to improve specialist's activity Implement / adopt best practice from R&D 	 Openness to new developments Critical thinking Being knowledgeable
5.3	Systems Approach	Taking a systems approach in the practical application of work methodology to solve problems AVPSY: M AVHFS: M	 Understand the need for a systems approach to improve system safety, (human-system) performance, individual well-being, and problems solving Appropriate formulation of problems in aviation applied sciences and development of effective strategies to resolve them * Understanding functional systems in aviation as a combination of organisation, humans and (sociotechnical) components 	 Encourage and apply a systems approach throughout any areas of practice Analytical skills * Problem-solving skills 	 Openness to new developments Critical thinking Being knowledgeable Analytical and systematic thinking
5.4	Collaboration with other disciplines	Collaboration and links across disciplines AVPSY: M AVHFS: M	 Understand that Human Factors and Aviation Psychology are interdisciplinary disciplines needing developing a network of trained peers 	 Interdisciplinary collaboration Be connected in networks 	CooperativeTeam worker mind-set

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# 5.5	Title Business/Customer Mindset	Short Description Maintaining awareness of the customers business objectives of and responsibility to individual, operational, organisational, and management considerations.	 Knowledge Knowledge of operational context in Aviation, understand the workplace of aviation staff and know the biggest risks in their workplace, know how to gain acceptance by operational staff Knowledge of the complex human relationships, including attitudes and motivation, in sociotechnical structures for an effective business 	 Skills Organisational analytical and diagnosis Organisation / management development Human / organisation performance 	Attitudes System view Balancing between individual and organisational benefits Self-confidence Being flexible
5.6		AVHFS: M	 outcome Knowledge and understanding of the business, organisational and management objectives / interests of the aviation system and of the different parties involved 	 Planning and counselling (management) Group facilitation 	 Focus attention to the user with the objective to provide a more usable system Balanced sensitivity towards customers
5.6	Creativity and Curiosity in applied psychology/HF	Apply psychological techniques and methods to generate creativity and curiosity in the workforce, provide examples of techniques and their advantages and pitfalls AVPSY: R AVHFS: R	 Knowledge about methods/ techniques to help operational staff to understand different perspectives from different roles/ responsibilities in the organisation, know the benefits of creativity and curiosity at work/ in the workforce 	 Set impulses to seek new information/experiences and explore novel possibilities in the work force through applying psychological interventions and techniques Facilitate creativity (brainstorming, going for a walk, mental training, mindfulness etc.) 	 Value the contribution of each staff member to the overall objective/ performance Keeping up to date with the novelties in the field
5.7	Effectively scoping, designing and implementing psychological interventions or work activities	Apply a psychological intervention for a specific issue (e.g., team- related issues, fatigued staff, underreporting) aiming to decrease or prevent operational accidents/ incidents/ errors AVPSY: M AVHFS: M	 Knowledge on how to transfer results from psychological assessments into recommendations and psychological interventions, * knowledge about evidence-based interventions (collect data/ know your facts), knowledge about predicting behaviour, knowledge about pitfalls of psychological interventions (effect of the experiment, lab conditions etc.) * Know the importance of a baseline and control group in experimental design 	 Scope, design and implement a psychological intervention in a certain work context (e.g., cockpit, cabin, maintenance) 	 Consider the human condition and mindset before starting an intervention

#	Title	Short Description	Knowledge	Skills	Attitudes
5.8	Ethics and Legal/Judicial competencies	Manage psychological activities based on suitable ethical principles and legal background AVPSY: M AVHFS: M	 Know principles of ethical standards and professionalism and understand the need for adherence to ethical standards (i.e. in aviation people can be killed by wrong applications) Have basic legal knowledge and know how psychology is anchored in the juridical system (e.g. right to refuse giving evidence, labour right) as grey zones exist, and once needs to be able to take responsibility when hiring, such as: Laws on liability, civil and criminal law, national and international laws Understand relevance of professional indemnity insurance Understand impact of data manipulation & plagiarism 	 Make sure approaches are correctly used Know how to stick to one's guns to be able to represent ethical rules in organisations, as pressure may exist to produce certain results Know how to promote adherence to ethical standards 	 Confidentiality Approachability Integrity Honesty Having ethical behaviour
5.9	Critical evaluation & analysis (evidence-based practice)	Rational thinking, critical evaluation, and analysis as core skills and are used to ensure that we continue to deliver evidence-based practice and noticeable and tangible results for our stakeholders from management to operational staff. We re-evaluate and refresh these skills frequently as part of continuous professional development.	 Know that decisions should be based on the best available, current, valid, and relevant evidence. 	 Know how to integrate best research evidence in your decisions Make decisions based on evidence including transparent line of arguments Rational and critical thinking 	 Attitude towards evidence-based practice

Any questions related to competencybased accreditation should be sent to <u>accreditatio@eaap.net</u>