AREA OF KNOWLEDGE	TOPIC AND SUB-TOPICS
Human Factors/ Ergonomics principles:	Human Factors/Ergonomics approach *Background of ergonomics *Ergonomics risk factors *Ergonomics principles Issues in remote working General and sociotechnical system theory Human as system component Human system integration Integrated view of human characteristics (physical, psychological, social) in system development
Human characteristics and interaction with the physical environment:	Demographics, anatomy and physiology *Musculoskeletal system *Anthropometry, gender, culture, ethnic variables relevant for design decisions *Work capacity and workload *Occupational biomechanical model *Energy and force production *Circadian rhythm *Static versus dynamic work Human psychology
	 *Human performance/error analysis *Vigilance *Situation awareness *Perceptual and cognitive aspects of information procession Psychophysics Perception-action analysis (motor skills and learning, proprioception, Stimulus response combability) Macro cognition Decision making Impact of motivation Human development
	*Physical environment Climate environment Principles, regulation, guidelines and standards in design for indoor and outdoor work Lighting Visual acuity and colour vision Lighting levels, contrast and glare Reflections and flickers fusion Noise Noise induced hearing loss Distraction, annoyance and emergency signals Thermal environment Body temperature regulation and acclimatisation

AREA OF KNOWLEDGE	TOPIC AND SUB-TOPICS
	 Subjective assessment – thermal comfort and discomfort Vibration Whole body vibration Hand arm vibration Health effects
Work analysis and measurement:	
	Organizational Analysis **Any 2 methods

AREA OF KNOWLEDGE	TOPIC AND SUB-TOPICS
People and technology:	Systems theory
	Technology
	Human role in IR4.0
	*Disability, Ageing and Inclusive Design Output Out
	*Human Computer Interaction
	*Human machine Interaction
	Human reliability
	Training and instruction
	Occupational hygiene
	Workplace design
	Information design
Social and Organizational	Social and organisational aspects
	Organisation Behaviour Group dynamics Organizational theory Team and organizational processes and change Participatory ergonomics
	Job and Organizational Design *Principle, guidelines and regulation of job design *Shift work and rest break *Shift planning Human performance measurement Job design, redesign and team design
	Macroergonomics o *Education and training o *Ergonomics management program o *Communication
	Organizational Leadership, Climate and Culture o Organizational climate *Implementing ergonomics intervention *Change management

AREA OF KNOWLEDGE	TOPIC AND SUB-TOPICS
	 Up to date knowledge of national strategies relevant to ergonomics practices
Professional issues:	*Professional ethics and responsibilities Role of ergonomist Ethics Code of conducts Ergonomist role in organization and society Lifelong learning *Legislative provisions and standards OSHA 1994 Guidelines related to Ergonomics Ergonomics Standards Design principles of safety and warning system Crisis management

Note: *the minimum requirement that is compulsory to be fulfilled are marked with*