



16 OHSBoK LO: Hazard - Biomechanical hazards

	<i>What cognitive level?</i>	<i>What should the graduate be able to do?</i>	<i>In what context?</i>	<i>To what level?</i>
Operational activities that a <u>new graduate</u> generalist OHS professional would be expected to undertake related to the topic	5	16.1 Develop criteria for design or modification of the workplace to minimise biomechanical hazards and musculoskeletal disorders (MSDs).	For a nominated situation or workplace Within a small organization or section of a larger organization With support/input by experienced professionals and /or technical specialists as appropriate.	In liaison with managers, supervisors, technical personnel and specialist advisors. Taking account of relevant legislation and standards.
	5	16.2 Develop criteria for design or modification of equipment to minimise biomechanical hazards and MSDs.	For a nominated situation or workplace Within a small organization or section of a larger organization With support/input by experienced professionals and /or technical specialists as appropriate.	In liaison with managers, supervisors, procurement and technical personnel and specialist advisors. With understanding of relevant standards, codes of practice and regulations.
	5	16.3 Develop and maintain system(s) of work to minimize biomechanical hazards and MSDs.	For a nominated situation or workplace Within a small organization or section of a larger organization With support/input by experienced professionals and /or technical specialists as appropriate System(s) of work may include routine and non routine tasks, operational and maintenance tasks	In liaison with managers, supervisors, procurement and technical personnel and specialist advisors. Taking account of relevant legislation and standards.
	5	16.4 Facilitate development and implementation of control strategies for biomechanical hazards and MSDs through a participatory ergonomics approach	For a nominated situation or workplace Within a small organization or section of a larger organization With support/input by experienced professionals and /or technical specialists as appropriate	In liaison with managers, supervisors, specialist advisors and worker representatives. Taking account of relevant legislation and standards.
Well developed/advanced cognitive and technical skills to analyse, critically evaluate and transform information	6	16.5 Apply knowledge of the multi-factorial nature of causation and the interaction of the range of risk factors to <u>identify</u> and <u>assess/evaluate</u> the biomechanical hazards and the risk of MSD	For a nominated situation or workplace Within a small organization or section of a larger organization Using pre-developed and tested tools available in the workplace, the industry or obtained from other recognized sources With support/input by experienced professionals	In consultation with appropriate workplace personnel. With sign off by an experienced professional where the risk may be high. Documented in a report to management.



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to complete activities related to the topic			and /or technical specialists as appropriate	
	5	16.6 <u>Develop</u> processes to monitor and evaluate control strategies for biomechanical hazards and MSDs	For a nominated situation or workplace Within a small organization or section of a larger organization	Documented in a report to management
Analyse and generate solutions to complex problems related to the topic	3	16.7 Identify when specialist advice is required and define the scope of work to engage services of appropriate specialists	For a nominated situation or workplace Within a small organization or section of a larger organization	Documented in a report to management.
	5	16.8 <u>Apply</u> knowledge of the multi-factorial nature of MSDs and mechanisms of causation together with a participatory ergonomics approach and knowledge of the hierarchy of control as it applies to biomechanical hazards to <u>develop</u> a hazard management strategy for MSDs	For a nominated situation or workplace Within a small organization or section of a larger organization With support/input by experienced professionals and /or technical specialists as appropriate	Documented as a management system document. With sign off by experienced professional where the situation is complex and/or risk is high.
	3	16.9 Engage with relevant personnel to implement the biomechanical hazard management strategy	For a nominated situation or workplace Within a small organization or section of a larger organization	Relevant personnel include managers, supervisors, and worker representatives.
Transmit knowledge, skills and ideas to others	3	16.10 Interpret information to explain biomechanical hazards and causation of MSD, the level of risk and rationale for control strategies	Information may include specialist reports	Communication strategies and language appropriate to the audience.
	2	16.11 Explain the workplace safety procedures relating to biomechanical hazards and MSD	In induction and similar processes	To all staff and contractors. Communication strategies and language appropriate to the audience.
Demonstrate the required underpinning science and/or psychology knowledge		Underpinning science: as it relates to the physics of forces and how the forces of movement may cause damage to the anatomical structures in the human body The Human: As a biological system and how the other body systems and conditions can impact on the risk of MSDs. The Human: Basic Psychological Principles		
Integration of knowledge from		Causation (esp Health Determinants); Control; Risk as it applies to gravitational hazards		



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other chapters				