

APPENDIX 2

Malaysian Qualifications Framework 2nd Edition: Level Descriptors

MQF LEVEL	Summary of Learners' Profile	CLUSTER 1: Knowledge and Understanding	CLUSTER 2: Cognitive skills	CLUSTER 3: FUNCTIONAL WORK SKILLS				CLUSTER 4: Personal and entrepreneurial skills	CLUSTER 5: Ethics and Professionalism
				Practical skills	Interpersonal and Communication Skills	Digital and Numeracy Skills	Leadership, Autonomy and Responsibility		
Level 1 CERTIFICATE	<p>Learners will have basic, foundational or general knowledge and skills.</p> <p>Perform basic and/or highly routine tasks under guidance,</p> <p>Prepare for further learning and being responsible ethical workers.</p> <p>Awareness of community as well as local and national institutions Curiosity of the world beyond self.</p>	Describe simple, factual and basic knowledge and skills within a narrow range of subjects/fields to undertake highly routine and predictable task(s) and study.	<p>Apply basic knowledge in the context of well-defined, highly routine and predictable tasks with guidance.</p> <p>Demonstrate ability to reflect and improve performance.</p>	Demonstrate simple skills by using a variety of common basic tools and materials for very well defined tasks.	<p>Communicate familiar everyday expressions and simple phrases within a limited range of contexts.</p> <p>Express an interest in at least one other language besides the national language.</p>	<p>Show competency to use basic mathematical tools. [e.g. symbols].</p> <p>Use a few simple/basic applications, which are adequate to perform given task(s) under guidance.</p>	<p>Work under direct guidance in highly structured activities/tasks with support.</p> <p>Demonstrate capacity to work independently or in a team.</p>	<p>Initiate some responsibility for learning with prompting and guidance.</p> <p>Demonstrate ability to reflect on the tasks undertaken/performed with guidance.</p> <p>Show an ability to identify some applicable personal values in task or learning contexts.</p>	Be a responsible member of the society and show sensitivity to other cultures than own.
Level 2 CERTIFICATE	<p>Learners will have factual knowledge and skills to carry out work in a well-defined environment as responsible and ethical workers.</p> <p>Demonstrate interest to undertake</p>	Describe/demonstrate or show factual knowledge of subjects/disciplines to address a variety of routine and non-routine tasks/work or for study.	<p>Apply knowledge and skills to well defined routine tasks and/or study.</p> <p>Apply familiar solutions to solve predictable problems in well-defined</p>	Demonstrate capacity to plan and complete well-defined tasks using common basic tools, methods and materials mostly with guidance.	Communicate within a limited range of contexts requiring simple and direct exchange of information on familiar and routine matters Develop basic proficiency in one	Use a limited range of basic applications and digital tools which are adequate to perform a given set of task(s) under supervision that enables access, and to process simple data.	<p>Work with limited autonomy and substantial support under general supervision in structured activities.</p> <p>Work in a team and exchange views, feedback with others</p>	<p>Initiate some responsibility for learning with guidance.</p> <p>Demonstrate an ability to reflect on tasks and personal actions and values.</p>	<p>Show an ability to apply some personal values in task(s) or learning contexts.</p> <p>Deepen an understanding of cultural diversities by continued exposure to other cultures and</p>

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	<p>further studies as well as make a commitment to lifelong learning.</p> <p>Develop skills to engage with local communities.</p> <p>Develop basic proficiency in one other language [eg. English]</p>		<p>routine tasks or study.</p>		<p>other language besides National language.</p> <p>Take responsibility for and initiate steps to learn further.</p>	<p>Interpret limited simple and familiar numerical and graphical data.</p>	<p>with limited responsibility and accountability.</p>		<p>value systems.</p> <p>Develop political and social awareness.</p>
Level 3 CERTIFICATE	<p>Learners will have the fundamental, theoretical and technical knowledge of facts and principles at an intermediate level. Demonstrate balanced operational skills as required.</p> <p>Show an interest in pursuing further studies in specific subjects or disciplines pertaining to their field of interest or work.</p> <p>Acquired elementary proficiency in one additional language [e.g. English].</p>	<p>Describe basic principles, theories and skills, within a significant range of knowledge in a subject and discipline to address well-defined, varied and routine tasks/work.</p>	<p>Apply knowledge, familiar solutions and skills to solve predictable problems of routine tasks and/or study.</p>	<p>Organise, operate and complete, using information appropriate methods, tools, technologies, materials to solve/ address routine and some non-routine tasks/problems within an area of work and/or study under supervision.</p>	<p>Communicate effectively and clearly orally or in writing, ideas, information, problems and solutions, individually or as a team to peers, experts and non-experts.</p> <p>Develop elementary proficiency in at least one other global language, besides the national language.</p>	<p>Use basic digital technology applications to support study/work to seek and process data related to a subject of study/work.</p> <p>Interpret and use familiar and uncomplicated numerical and graphical data.</p>	<p>Demonstrate capacities to work with considerable autonomy and minimal supervision.</p> <p>Provide guidance to others within context of work/study.</p> <p>Undertake considerable responsibility for quality and impact of outputs.</p> <p>Take responsibility for, and reflect on, performance of tasks/work/study.</p>	<p>Initiate self-improvement through study or seek further training with minimal guidance.</p> <p>Show awareness and general knowledge of Malaysia and its ASEAN partners in the region.</p> <p>Demonstrate basic understanding of entrepreneurship knowledge and skills.</p>	<p>Demonstrate ability to comply with work ethics in task(s) or learning especially in diverse multi-cultural contexts.</p> <p>Pursue active engagement with local civil societies on matters of interest to local and global communities [e.g. environmental issues].</p>

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	Demonstrate age-appropriate local civic engagement and awareness of global issues.								
Level 4 DIPLOMA	<p>Learners will have a broad knowledge of the general theories, principles and demonstrate skills in a focused area of study/discipline enabling them to undertake specialized work leading to a career path in technical, professional or management fields.</p> <p>Learners express interest in pursuing further education.</p> <p>Learners will have a commitment for appropriate ethical behavior and express an appreciation of national aspirations within global perspectives.</p>	Demonstrate systematic comprehension (understanding) of a broad range of complex technical and theoretical knowledge and skills to undertake varied, complex, routine and non-routine tasks/ study within a field/discipline.	<p>Identify, interpret, apply and evaluate general concepts, theory and/or operational principles within a well-defined context of a subject/discipline and/or work with minimal supervision.</p> <p>Solve problems of a common and well-defined kind as well as those others of a non-routine nature.</p>	<p>Apply a limited range of practical skills, essential tools, methods and procedures to perform required tasks/work.</p> <p>Reflect and make adjustments to practices and processes, as necessary, related to routine or non-routine tasks.</p>	<p>Communicate clearly, both orally and in writing, ideas, information, problems and solutions, to others including peers, experts and non-experts.</p> <p>Interact effectively, individually or as member of a team with supervisors, peers and subordinates.</p> <p>Demonstrate a high level of proficiency in at least one other language besides the national language.</p>	<p>Use a range of digital applications to support study/work as well as to seek and process data related to work or study.</p> <p>Demonstrate skills to use and interpret routine and complex numerical and graphical/visual data.</p>	<p>Perform work with significant degree of personal responsibility and autonomy under broad guidance and direction on well-defined and non-routine study/work activities performed in a variety of contexts.</p> <p>Lead and manage diverse teams to manage issues at work.</p>	<p>Identify self-improvement initiatives and possibilities for further education. Develop realistic career and professional goals.</p> <p>Explore and engage in activities relating to entrepreneurship.</p> <p>Show interest in and participate at professional and civic activities leading to local and region wide communities building.</p>	Demonstrate ability to understand and comply with, organizational and professional ethics in work environment. Demonstrate ability to apply sustainable practices in the context of local and global work and social environment.
Level 5 ADVANCED DIPLOMA	Learners have significant theoretical and	Describe a range of theoretical, conceptual and technical knowledge	Identify, interpret apply, analyze and evaluate detailed	Using a range of practical skills apply essential methods	Communicate and interact effectively and cogently in a comprehensive and	Use a range of information, media and technology applications to	Perform work with substantial degree of autonomy and often carrying significant	Engage in self-directed lifelong learning effectively and participate	Demonstrate ability to exercise social responsibilities; comply with

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	<p>technical knowledge. Can deal with complex situations at work and show an ability to understand and comply with, organizational and professional demands.</p> <p>Learners will have an ability to apply sustainable practices ethically and in the context of local and global work and social environment.</p>	and comprehension within an advanced (specialized knowledge) field to address varied and unpredictable tasks/work /study.	<p>technical, conceptual and theoretical knowledge in a specialized subject/discipline or work.</p> <p>Solve problems/issues in a broadly-defined complex, routine and non-routine context or under even unpredictable circumstances with a limited range of approaches and independence.</p>	<p>and procedures to a broad range of complex tasks and/or of study.</p> <p>Review and make adjustments and supervise others on related practices and processes.</p>	<p>well-structured manner to convey information, ideas, problems and solutions for social, academic and professional purposes to a range of audiences.</p> <p>Show a high level of oral and written proficiencies in at least two languages.</p>	<p>support study and/or work.</p> <p>Interpret and apply routine and non-routine, complex numerical and graphical/visual data.</p>	<p>levels of responsibilities.</p> <p>Make management decisions independently on resources allocation as well as performance related judgements of others in the workplace.</p> <p>Demonstrate capacities to take responsibility and accept accountability.</p> <p>Demonstrate team leadership in new environments including undefined areas of work.</p>	<p>independently in professional collaborations.</p> <p>Demonstrate entrepreneurial skills in relevant selected situations.</p> <p>Demonstrate competencies working or studying in multicultural, multilingual and multiethnic communities locally and globally.</p>	<p>professional, ethical and sustainable practices.</p> <p>Contribute to the development of sustainable local and global communities.</p>
Level 6 BACHELOR GRADUATE CERTIFICATE/ DIPLOMA	Learners will demonstrate a thorough comprehension of broad based and coherent body of knowledge and skills for para and full professional work embedding research, innovation and creativity in	Describe advanced and comprehensive, theoretical and technical knowledge and demonstrate relevant skills in a specialized field, or of a multidisciplinary nature related to the field of study, work and/or practice	<p>Demonstrate intellectual independence in the application of knowledge within specific field(s) by applying critical, analytical and evaluation skills in the field of study/work/practice.</p>	<p>Apply a range of essential methods and procedures to solving a broad range of complex problems.</p> <p>Review, make adjustments and supervise related practices and processes</p>	<p>Convey ideas both in written or oral forms using appropriate and different forms of presentation, confidently, accurately and coherently in appropriate context in a well-structured manner to a diversity of audiences.</p>	<p>Use a broad range of information, media and technology applications to support study and/or work.</p> <p>Use and combine numerical and graphical/visual data for study/work.</p>	<p>Work autonomously, and show leadership and professionalism in managing responsibilities within broad organizational parameters.</p> <p>Undertake significant levels of work related</p>	<p>Engage effectively in self-directed lifelong learning and professional pathways.</p> <p>Demonstrate entrepreneurial competency with selected project(s). Demonstrate an appreciation of</p>	<p>Demonstrate adherence, and ability to identify ethical issues, make decision ethically, and act professionally within the varied social and professional environment and practice.</p>

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	specialized areas. Demonstrate professionalism, resilience commitment to an ethical work culture, sustainability issues and an awareness of global citizenship in alignment with national aspirations.		Manage, resolve complex applications and handle unpredictable issues with creative and innovative solution(s). Apply skill/ knowledge to a range of approaches in the field of study/work/practice.	concerning field of specialization.	Work together with different people in diverse learning and working communities as well as other groups locally and internationally.		responsibilities of others as well as self. Demonstrate decision making capacities and professionalism by working towards pre-determined goals and outcomes Demonstrate accountabilities, especially in professional fields.	broader socio-political economic and cultural issues at local/national and regional level.	Demonstrate a deep familiarity and knowledge of local and global issues relating to science, technology, business, social and environmental issues.
Level 7 MASTERS POSTGRADUATE CERTIFICATE/ DIPLOMA	Learners at this level will demonstrate a mastery of knowledge in specific field/fields of study/work and through further learning, research, and/or professional practice; and Buttressed by a comprehension of strong theoretical knowledge, critical thinking, creative and innovative skills. They will also be able to generate new solutions to problems. They operate with confidence,	Demonstrate originality and independence in undertaking analytical and critical evaluation, and synthesis of complex information, specialized concepts, theories, methods and practice in a field(s) of study/practice as a basis for research. Apply knowledge critically and integratively to manage and resolve complex problems/issues in a	Conduct standard and specialized research methods/ approaches and/or apply practical skills, tools or investigative techniques which are informed by knowledge at its forefront and the latest development in the subject/discipline. Exemplify capacity to solve and manage complex problems or issues in a field(s) of study/practice.	Communicate clearly the knowledge, skills, ideas, critique and conclusion/rationale using appropriate methods to peers, experts, and non-experts in at least one international language. Work together and collaboratively with different people in learning and working communities and other groups and networks, ethically and professionally. Demonstrate competencies to work and undertake	Use a broad range of information, media and technology applications to support study and/or work. Use and combine numerical and graphical/visual data for measurement for study/work.	Competently use a wide range of suitable digital technologies and appropriate software to enhance study, research and/or work/practice. Adapt applications and systems to address defined and new situations/problems. Show skills to design, plan evaluation activities, using quantitative/ statistical tools. Apply mathematical and other	Demonstrate significant autonomy, independence, leadership, and interpersonal skills at work and class. Show substantial responsibility in planning, resource management, supervision and problem solving and managing work within own team and collaboratively with other teams especially in the context of complex application and unpredictable situations.	Exemplify self-advancement through continuous academic and/or professional development. Initiate and/or lead entrepreneurial ventures/ projects.	Demonstrate adherence to legal, ethical and professional codes of practice. Demonstrate confidence to give advice and make decision(s) on complex issues based on critical reflections and ethical considerations. Contribute professionally to social, technological and economic development both nationally and internationally.

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	knowledge and skills both in Malaysia/ASEAN as well as the wider world.	field(s) of study/practice through research, using advance techniques, tools, skills or by a range of approaches or (integrative) combination of approaches for decision making and producing new ideas, and/or innovative solutions or practice.		advanced study in at least one foreign language.		quantitative, qualitative tools to analyze and evaluate numerical and graphical data for study/work.			Demonstrate ability to engage meaningfully on a range of civic and global issues in one's own area of expertise.
Level 8 DOCTORAL	<p>Learners will demonstrate critical understanding of the most advanced knowledge at the frontiers of a field of study or professional practice.</p> <p>Independently conduct, manage, and lead advanced research which contributes to substantial, new and original knowledge, and/or professional practice.</p> <p>Produce research</p>	Demonstrate comprehensive, systematic, integrated, new, complex and abstract idea of current critical issues in the most advanced frontiers of knowledge of a field of study, discipline or practice.	<p>Critically analyze, evaluate and synthesize new, complex and abstract ideas and current critical issues in the most advanced frontiers of knowledge of a field of study/discipline/practice and refine existing concepts and practices.</p> <p>Solve complex, abstract and emerging contemporary issues and challenges by</p>	<p>Demonstrate mastery of practical, technical skills/practices and scientific skills which is at the forefront of one or more areas of specialization and to develop new complex skills or techniques and solutions to resolve new highly complex and emerging problems.</p> <p>Demonstrate ability to design and implement or adapt highly advanced,</p>	<p>Communicate effectively research findings to peers, scholarly communities and society at large in the relevant field of expertise.</p> <p>Work to deal with different people in learning and working communities and other groups and networks, ethically and professionally.</p> <p>Convey information, insights, ideas, problems and</p>	<p>Use/select/improve existing or develop new appropriate tools/methodologies to support and enhance research activities.</p> <p>Undertake critical evaluation of numerical and graphical data.</p>	<p>Work with substantial autonomy, independence, and authority in the conduct and management of research and resources, which contribute, to new knowledge, advanced practices, processes and products.</p> <p>Demonstrate leadership, professionalism and management skills, and take full</p>	<p>Integrate knowledge for lifelong learning with development of new ideas, solutions and systems.</p> <p>Take full responsibility for own work and where relevant be accountable for overall management of one's research organization.</p> <p>Initiate and lead entrepreneurial ventures and projects.</p>	<p>Demonstrate adherence to legal, professional and ethically sound codes of practice.</p> <p>Identify emerging ethical and professional issues, its complexities, and implications to advancement of research in the field and its societal impact.</p> <p>Continue to contribute professionally to social, technological and economic development.</p>

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	<p>outputs in the form of a thesis, patents, products, new advanced professional practice or advanced technologies, creative models or works of art, or music.</p> <p>Demonstrate capacities to present and defend points of view, thesis and ideas in area(s) of expertise with knowledge and confidence.</p>		<p>independently applying advanced research methods, analytical tools and skills to creatively generate new knowledge, theories, novel solutions and/or new practices within the field(s) of study/discipline/practice.</p> <p>Make substantial contribution through the creation of new knowledge/theories/solutions/practice through originality and independent research, which satisfies peer reviews and international standards.</p>	<p>specialized research methodologies which is at the forefront of one or more area of specialization.</p>	<p>present solutions cogently/coherently to peers, scholarly community and society at large in the field of expertise.</p> <p>Demonstrate advanced/sophisticated leadership skills and abilities to bring effective collaboration with a diversity of partners.</p>		<p>responsibility for own work, and significantly for others in the research team/organization/projects/work.</p> <p>Contribute to the technological, social and cultural progress on academic and professional practice to the society at large on emerging issues at professional/expert/specialist level.</p>		