

Mapping of Programme Learning Outcomes COPTPA 2019 vs Proposed COPTPA 2020

Cluster Of MQF	Learning Outcomes for <u>Level 1</u> (2019)	Learning Outcomes for <u>Level 1</u> (2020)
Knowledge and Understanding	Demonstrate an understanding of simple, factual and basic knowledge within a narrow range of knowledge to address routine and predictable tasks and work.	Demonstrate an understanding of basic knowledge in specific technical areas to perform highly routine task .
Cognitive Skills	Apply knowledge in well-defined, highly routine and predictable tasks .	Apply understanding of knowledge to perform highly routine task .
Functional Work Skills: a. Practical Skills b. Interpersonal Skills c. Communication Skills d. Digital Skills e. Numeracy Skills f. Leadership, Autonomy and Responsibility	<ul style="list-style-type: none"> • Demonstrate basic practical skills using a variety of common tools and materials for very well-defined tasks and systems. • Understand and communicate familiar everyday expressions and simple phrases within a limited range of contexts in basic Malay and English. • Possess basic digital literacy which is adequate to perform a given task(s) under supervision. • Work under direct supervision in a highly structured and supported context as the nature of work is repetitive and directed. • Work in a team and interact with others. 	<ul style="list-style-type: none"> • Demonstrate the ability to use basic tools and materials to perform highly routine task. • Demonstrate the ability to communicate everyday expressions using national and at least one other language within the immediate working environment. • Use basic mathematical tools to perform highly routine task. • Demonstrate the ability to work independently or in a team under direct guidance.
Personal and Entrepreneurial Skills	<ul style="list-style-type: none"> • Demonstrate some responsibility for own learning (awareness of the possibility of future learning). • Demonstrate the ability to reflect the task(s) undertaken (with some guidance). 	Demonstrate ability to self-learn, self-reflect and identify personal values .
Ethics and Professionalism	Be a responsible member of the society (able to demonstrate general rules of behaviour and responsibility in familiar social and health, safety and environment contexts).	Demonstrate the ability to apply social responsibility and cultural sensitivity in task and learning context.

Cluster Of MQF	Learning Outcomes for <u>Level 2</u> (2019)	Learning Outcomes for <u>Level 2</u> (2020)
Knowledge and Understanding	Demonstrate fundamental understanding within a significant range of knowledge to address varied and non-routine tasks/work .	Demonstrate an understanding of factual knowledge in specific technical areas to perform routine and non-routine task .
Cognitive Skills	<ul style="list-style-type: none"> • Apply familiar known solutions to solve predictable problems in well-defined routine tasks. • Recognise and solve problems in a highly familiar and well-defined context under supervision. 	Apply critical thinking to perform routine and non-routine task .
Functional Work Skills: <ul style="list-style-type: none"> a. Practical Skills b. Interpersonal Skills c. Communication Skills d. Digital Skills e. Numeracy Skills f. Leadership, Autonomy and Responsibility 	<ul style="list-style-type: none"> • Communicate within a limited range of contexts simple and routine tasks requiring a simple and direct exchange of information on familiar and routine matters in basic Malay and English language. • Possess basic digital literacy which is adequate to perform a given task(s) under supervision. • Work with limited autonomy under substantial support and general supervision in a structured activity. • Work in a team and exchange views and feedback with others. • Undertake responsibility and autonomy in performance. 	<ul style="list-style-type: none"> • Demonstrate the ability to plan and use basic tools, methods and materials to perform routine and non-routine task. (NEW) • Demonstrate the ability to communicate everyday expressions using national and at least one other language with appropriate etiquette within the immediate working environment. • Use limited range of basic digital tools to perform routine and non-routine task. • Demonstrate the ability to work independently or in a team under general supervision.
Personal and Entrepreneurial Skills	<ul style="list-style-type: none"> • Demonstrate some responsibility for learning. • Reflect and assess work and personal actions (for future improvement). 	Demonstrate ability to self-learn, self-reflect and identify personal values .
Ethics and Professionalism	Be a responsible member of society (able to demonstrate general rules of behaviour and responsibility in familiar social and health, safety and environment contexts).	Demonstrate the ability to apply personal values, cultural diversity, political and social awareness in task and learning context.

Cluster Of MQF	Learning Outcomes for Level 3 (2019)	Learning Outcomes for <u>Level 3 (2020)</u>
Knowledge and Understanding	Demonstrate an understanding of basic principles and theories within a broad range of knowledge to address varied, complex and non-routine tasks/work .	Demonstrate an understanding of specific range of technical knowledge in specific technical areas to perform varied routine and non-routine task .
Cognitive Skills	Operate and/or select basic methods, tools, technologies, material and information to address well-defined and some non-routine problems within an area of work and/or study with supervision .	Apply critical thinking and problem solving to perform varied routine and non-routine task .
Functional Work Skills: a. Practical Skills b. Interpersonal Skills c. Communication Skills d. Digital Skills e. Numeracy Skills f. Leadership, Autonomy and Responsibility	<ul style="list-style-type: none"> • Communicate effectively and cogently, orally or in writing, ideas, information, problems and solutions individually or as a team to peers, experts and non-experts (range of audience) in Malay and English. • Use basic digital technology applications to support study or work (IT skills). • Take responsibility for, and reflect, self-performance for the scope of activity. • Considerable responsibility, autonomy and control or guidance/supervision of others are often required within the scope of work and study. 	<ul style="list-style-type: none"> • Demonstrate the ability to organize, plan and use methods, tools, technologies and materials to perform varied routine and non-routine task. (NEW) • Demonstrate the ability to communicate effectively information and ideas orally/in-writing using national and at least one other language with appropriate etiquette within immediate working environment. • Use basic digital technology for data processing and analysis as well as interpret and use numerical and graphical data to perform varied routine and non-routine task. • Demonstrate the ability to work with considerable autonomy and could assume small supervisory role with considerable responsibility on the quality of process and/or product/services.
Personal and Entrepreneurial Skills	Study and/or pursue personal development with minimal guidance .	Demonstrate ability to self-improve and be entrepreneurial .
Ethics and Professionalism	Demonstrate self-reflection of study performance or work taking into account social, ethical, and health, safety and environment issues .	Demonstrate the ability to apply good work ethics, local and global community engagement in task and learning context.

Cluster Of MQF	Learning Outcomes for Level 4 (2019)	Learning Outcomes for <u>Level 4 (2020)</u>
Knowledge and Understanding	Demonstrate an understanding of a broad range of complex technical and theoretical knowledge to address well-defined and non-routine tasks/work .	Demonstrate an understanding of broad range of theoretical and technical knowledge in specific technical areas to perform varied complex routine and non-routine task .
Cognitive Skills	<ul style="list-style-type: none"> • Identify, interpret, apply and evaluate the general concepts, theories and/or operational principles within the well-defined context of a subject/discipline and/or work. • Solve problems in common and well-defined routine and occasional non-routine problems with minimal supervision. • Review, make adjustments and supervise related practices and processes concerning the field of specialisation. 	Apply critical thinking, problem solving and creative thinking to perform varied complex routine and non-routine task .
Functional Work Skills: a. Practical Skills b. Interpersonal Skills c. Communication Skills d. Digital Skills e. Numeracy Skills f. Leadership, Autonomy and Responsibility	<ul style="list-style-type: none"> • Communicate and interact effectively and clearly, orally or in writing, ideas, information, problems and solutions individually or as a team to peers, experts and non-experts (range of audience) in Malay and English. • Demonstrate a substantial degree of personal responsibility and autonomy under broad guidance and direction on well-defined and non-routine study or work activities performed in a wide variety of contexts. • Demonstrate supervisory and collaborative skills and responsibility for the work performance of others. (Management and Leadership skills) • Possess professional knowledge and practical skills in both technical and management to lead a team in an inexperienced environment. (Advanced/Manager Level) 	<ul style="list-style-type: none"> • Demonstrate the ability to organize, plan and use methods, tools, technologies and materials as well as reflect and make adjustment to practices and processes when necessary to perform varied complex routine and non-routine task. • Demonstrate the ability to communicate effectively information and ideas orally/in-writing using national and at least one other language proficiently with appropriate etiquette within large working environment. • Use limited range of digital technology for data processing and analysis as well as interpret and use complex numerical and graphical data to perform varied complex routine and non-routine task. (NEW) • Demonstrate the ability to work with significant degree of autonomy and leading diverse teams with high responsibility on the quality of process and/or product/services.
Personal and	• Demonstrate self-evaluation of study or work performance.	Demonstrate ability to identify self-improvement initiatives for career or

Cluster Of MQF	Learning Outcomes for Level 4 (2019)	Learning Outcomes for <u>Level 4 (2020)</u>
Entrepreneurial Skills	<ul style="list-style-type: none"> • Demonstrate self-direction for learning and professional/career growth/development of entrepreneurial skills. 	educational goals and engage in entrepreneurial activities.
Ethics and Professionalism	Take into account professional, social, ethical, and health, safety and environment issues .	Demonstrate the ability to apply organizational/personal ethics and sustainable practices in task and learning context.

	Learning Outcomes for Level 5 (2019)	Learning Outcomes for <u>Level 5 (2020)</u>
Knowledge and Understanding	Demonstrate understanding across a significant range of theoretical, conceptual and technical knowledge within a specialised field to address varied and unpredictable tasks/work .	Demonstrate an understanding of significant depth of theoretical and technical knowledge in specific technical areas to perform varied and unpredictable complex task .
Cognitive Skills	Apply, interpret, analyse, and evaluate detailed technical, conceptual and theoretical knowledge and resolve issues in a broadly defined complex context, routine and non-routine or unpredictable circumstances.	Apply critical thinking, problem solving and creative thinking to perform varied and unpredictable complex task .
Functional Work Skills: a. Practical Skills b. Interpersonal Skills c. Communication Skills d. Digital Skills e. Numeracy Skills f. Leadership, Autonomy and Responsibility	<ul style="list-style-type: none"> • Apply a range of practical skills, essential methods and procedures to a broad range of complex tasks. • Express oneself fluently and spontaneously without much obvious searching for expressions, and use language flexibly and effectively for social, academic and professional purposes. • Produce clear, well-structured, and detailed texts on complex subjects, showing controlled use of organisational patterns, connectors and cohesive devices at the advanced proficiency level of Malay and English. • Demonstrate the ability to incorporate entrepreneurial skills in planning daily activities. • Exercise very substantial degree of autonomy and often significant responsibility in making judgements/decisions towards the management of 	<ul style="list-style-type: none"> • Demonstrate the ability to organize, plan and use methods, tools, technologies and materials as well as reflect and make adjustment to practices and processes when necessary with the understanding of limitations to perform varied and unpredictable complex task. • Demonstrate the ability to communicate effectively and cogently information and ideas orally/in-writing using national and at least one other language proficiently with appropriate etiquette within large working environment and network. • Use a range of digital technology for data processing and analysis as well as interpret and use complex numerical and graphical data to perform varied and unpredictable complex task. (NEW)

	Learning Outcomes for Level 5 (2019)	Learning Outcomes for <u>Level 5 (2020)</u>
	<p>self and others and for the allocation of substantial resources.</p> <ul style="list-style-type: none"> • Possess professional knowledge and practical skills in both technical and management to lead a team in an inexperienced environment. (Advanced/Manager Level) 	<ul style="list-style-type: none"> • Demonstrate the ability to work with substantial degree of autonomy carrying significant level of responsibility and accountability, making management decisions independently, and lead in new environment.
Personal and Entrepreneurial Skills	<ul style="list-style-type: none"> • Demonstrate related global competencies • Engage in self-directed lifelong learning effectively and demonstrate entrepreneurial skills. 	Demonstrate ability to engage effectively in self-improvement initiatives for career or educational goals and engage in entrepreneurial activities.
Ethics and Professionalism	Demonstrate social, professional, environmental and ethical practice/code/values to solve problems.	Demonstrate the ability to apply social responsibilities; professional, ethical and sustainable practices in task and learning context.

Clusters	Learning Outcomes for <u>Level 6 (2020)</u>
Knowledge and Understanding	Demonstrate an understanding of advanced and comprehensive, theoretical and technical knowledge in specific technical areas to perform highly complex and innovative task.
Cognitive Skills	Apply critical thinking, problem solving and creative thinking to perform highly complex and innovative task.
Functional Work Skills: <ul style="list-style-type: none"> a. Practical Skills b. Interpersonal Skills c. Communication Skills d. Digital Skills e. Numeracy Skills f. Leadership, Autonomy and Responsibility 	<ul style="list-style-type: none"> • Demonstrate the ability to organize, plan and use methods, tools, technologies and materials as well as reflect and make adjustment to practices and processes when necessary with the understanding of limitations and their working principles to perform highly complex and innovative task. • Demonstrate the ability to communicate effectively, cogently, accurately and coherently information and ideas orally/in-writing using national and at least one other language proficiently with appropriate etiquette within large working environment and diverse network. • Use broad range of digital technology for data processing and analysis as well as interpret and use complex numerical and graphical data to perform highly complex and innovative task.

Clusters	Learning Outcomes for <u>Level 6 (2020)</u>
	<ul style="list-style-type: none"> • Demonstrate the ability to work autonomously carrying significant level of responsibility and accountability as a professional, making management decisions within broad organizational parameters, and lead in new environment.
Personal and Entrepreneurial Skills	Demonstrate ability to engage effectively in self-improvement initiatives for career, professional or educational goals and engage in entrepreneurial activities .
Ethics and Professionalism	Demonstrate the ability to apply social responsibilities; professional, ethical and sustainable practices as well as familiarity of local and global issues relating to science, technology, business, social and environmental issues in task and learning context.