MCAST PROGRAMMES - PUBLIC INFORMATION TEMPLATE (FULL TIME)

Institute	Institute of Applied Sciences
Department	Centre for Agriculture, Aquatics, and Animal Sciences

Programme Title	Diploma in Fish Husbandry			
Course Code *To be filled in by Admissions Dept.*	AG3-O02-25	**If the programme includes a WBL element, How is it accredited?**	Not Applicable, does not include WBL	
MQF/ EQF Level	Level 3	**Type** *(refer to Appendix 1 for Parameters)*	Qualification	**Awarding Body**	MCAST – Malta College of Arts, Science and Technology
Accreditation Status	Accredited via MCAST's Self Accreditation Process (MCAST holds Self-Accrediting Status as per 1st schedule of Legal Notice 296/2012)			
Mode of Delivery	Face to Face	**Duration***(Academic Years or Semesters)*	1 Year	**Mode of Attendance**	Full-Time
Total Number of Credits	60 credits	**Total Learning Hours** *(25 Total Learning Hours for each ECTS)*	1500 hours		
Target Audience	Ages 16 - 65	**Target Group** *(the type of learners that the educational institution anticipates joining this programme)*	-		
Programme Fees	There are no fees applicable to Maltese and other EU Nationals (as will be evidenced by their Identity Document) Fees apply for other International Applicants… for fee information and any related updates it is best to communicate with MG2i International through applyinternational@mcast.edu.mt One may consider checking about possible eligibility or otherwise for any exemption from fees by contacting the relevant section within MEYR (Floriana) – or visit the servizz.gov.mt website here			
Date of Next Student Intake	For further information regarding upcoming student intake and applications time windows for same kindly click here			
Language of Instruction	The official language of instruction at MCAST is English. All notes and textbooks are in English (except for language courses, which will be in the respective language being instructed). International candidates will be requested to meet English language certification requirements for access to the course.			
Application Method	Applications to full-time courses are received online via the College Management Information System. Applicants can log-in using Maltese Electronic ID (eID) in order to access the MCAST Admissions Portal directly and create one's own student account with the identity being verified electronically via this secure service. Non-EID applicants need to request account creation though an online form after that they confirm that their local Identification Document does not come with an EID entitlement. . Once the identity is verified and the account is created on behalf of the applicant, one may proceed with the online application according to the same instructions applicable to all other applicants. For more information about how to apply online for a course at MCAST, please visit:			

	https://mcast.edu.mt/how-to-apply-online-2/
Information for Non-EU Citizens	Non-EU candidates require a study visa in order to travel to Malta and join the course applied for (on a Full Time delivery mode). For further information re study-visa please access https://www.identitymalta.com/unit/central-visa-unit/. Further information International / TCN applicants should take note of before requesting to being considered for a programme of studies at MCAST, can be obtained through the respective FAQ found on https://mcast.edu.mt/important-information/
IMPORTANT note to Non-EU Nationals / TCNs	In instances where a TCN is applying for an MCAST programme of studies which includes Apprenticeship / Placement / Internship, it is the applicant's responsibility to check with the relevant Maltese Authority whether one would be eligible to have the necessary permits to be able to carry out the accredited Apprenticeship / Placement / Internship, success from which is expected in order to be able to successfully complete the selected programme of studies. Further information can also be obtained through the respective FAQ found on: https://mcast.edu.mt/important-information/

Address where the Programme will be Delivered	*MCAST has four campuses as follows:*
	
	MCAST Main Campus
	Triq Kordin,
	Paola, Malta
	
	All courses except for courses delivered by the Institute for the Creative Arts, the Centre of Agriculture, Aquatics and Animal Sciences and the Gozo Campus are offered at the Main Campus address (above).
	
	Courses delivered by the Institute for the Creative Arts, the Centre of Agriculture, Aquatics and Animal Sciences, or the Gozo Campus, are offered in one of the following addresses as applicable:
	
	Institute for the Creative Arts
	Mosta Campus
	Misraħ Għonoq Tarġa Gap,
	Mosta
	
	Institute of Applied Sciences
	Centre of Agriculture, Aquatics and Animal Sciences,
	Luqa Road, Qormi
	
	Gozo Campus
	J.F. De Chambray Street
	MCAST, Għajnsielem
	Gozo
	
	In the case of courses delivered via Online Learning, students will be following the programme from their preferred location/address.
	
	Programmes delivered via Blended Learning, and which therefore contain both an online and a face to face component shall be delivered as follows:
	
	    o Face to Face components – as per above address instructions
	    o Online components – from the student's preferred address.

Course Description *(Refer to Programme Specification)*	This programme of study introduces the learner to the basics of fish husbandry and provides the knowledge and skills required by the learner for eventual employment in related industries such as the fish farming and aquatics industries. Being the only course in Malta that is solely dedicated to fish husbandry, this programme offers an excellent opportunity for employment in this industry, which has now become an important economic sector in the Maltese Islands. The learner will develop the knowledge and practical skills needed, provided that one attends all the practical sessions which are vital to enhance the theoretical knowledge gained during lectures.
Deskrizzjoni tal-Kors *(Refer to Programme Specification)*	Dan il-programm ta' studju jintroduċi lill-istudent għall-aspetti bażiċi tat-trobbija tal-ħut u jipprovdi l-għarfien u l-ħiliet meħtieġa biex eventwalment isib impjieg f'industriji relatati, bħal dawk tat-trobbija tal-ħut u tal-akkwatika. Billi huwa l-uniku kors f'Malta ddedikat biss għat-trobbija tal-ħut, dan il-programm joffri opportunità eċċellenti għal impjieg f'din l-industrija, li issa saret settur ekonomiku importanti fil-Gżejjer Maltin. L-istudent jiżviluppa l-għarfien u l-ħiliet prattiċi meħtieġa, ladarba jattendi s-sessjonijiet prattiċi kollha li huma vitali biex jissaħħaħ l-għarfien teoretiku miksub waqt il-lezzjonijiet.
Career Opportunities:	Fish Farm Assistant, Aquarium Shop Assistant
Entry Requirements *(Refer to Prospectus / Course Page on MCAST website)*	**Internal Progression Route….** Any MCAST MQF Level 2 Foundation Certificate OR 2 SEC / SSC&P or equivalent with a Pass Grade / Level 3
Other Notes related to this Programme, and which are to be taken note of	-
Programme Learning Outcomes *(Refer to Programme Specification)*	At the end of the programme the students is able to 1. Perform simple techniques in fish handling and feeding. 2. Perform simple techniques in pet fish care. 3. Perform monitoring and simple analysis of water for fish farming and pet fish breeding. 4. Make use of standard tools and equipment in line with safety procedures.
Teaching, Learning and Assessment Procedures	The programmes offered are vocational in nature and entail both theoretical lectures delivered in classes as well as practical elements that are delivered in laboratories, workshops, salons, simulators as the module requirements dictate. Each module or unit entails a number of in person and/or online contact learning hours that are delivered by the lecturer or tutor directly (See also section 'Total Learning Hours). Access to all resources is provided to all registered students. These include study resources in paper or electronic format through the Library and Resource Centre as well as tools, software, equipment and machinery that are provided by the respective institutes depending on the requirements of the course or module. Students may however be required to provide consumable material for use during practical sessions and projects unless these are explicitly provided by the College. All Units of study are assessed throughout the academic year through continuous assessment using a variety of assessment tools. Coursework tasks are exclusively based on the Learning Outcomes and Grading Criteria as prescribed in the course specification. The Learning Outcomes and Grading Criteria are communicated to the

	Student via the coursework documentation. The method of assessment shall reflect the Level, credit points (ECTS) and the schedule of time-tabled/non-timetabled hours of learning of each study unit. A variety of assessment instruments, not solely Time Constrained Assignments/Exams, are used to gather and interpret evidence of Student competence toward pre-established grading criteria that are aligned to the learning outcomes of each unit of the programme of study. Grading criteria are assessed through a number of tasks, each task being assigned a number of marks. The number of grading criteria is included in the respective Programme Specification. The distribution of marks and assessment mode depends on the nature and objectives of the unit in question. Coursework shall normally be completed during the semester in which the Unit is delivered. Time-constrained assignments may be held between 8 am and 8 pm during the delivery period of a Unit, or at the end of the semester in which the Unit is completed. The dates are notified and published on the Institute notice boards or through other means of communication. Certain circumstances (such as but not limited to the COVID-19 pandemic) may lead Institutes and Centres to hold teaching and assessment remotely (online) as per MCAST QA Policy and Standard for Online Teaching, Learning and Assessment (Doc 020) available via link https://www.mcast.edu.mt/college-documents/ The Programme Regulations pertaining to this Programme's MQF/EQF level available at: link https://www.mcast.edu.mt/college-documents/, apply.
Grading System	All MCAST programmes adopt a Learner-centred approach through the focus on Learning Outcomes. The assessment of MCAST programmes is criterion-referenced and thus assessors are required to assess learners' evidence against a pre-determined set of Learning Outcomes and Assessment Criteria. For a student to be deemed to have successfully passed a unit, a minimum of 50% (grade D) must be achieved. All full time units are individually graded as follows: A* (90-100) A (80-89) B (70-79) C (60-69) D (50-59) Unsatisfactory work is graded as 'U'. Work-based learning units (where applicable) are graded on a Pass/Fail basis only. Some units which follow industry standards and regulations may also be graded on a Pass/Fail basis as per programme regulations referred below. Detailed information regarding the grading system may be found in the Programme Regulations pertaining to this programme's MQF/EQF Level available at: https://www.mcast.edu.mt/college-documents/ (Refer to DOC 003, 004 and 005)
Exit Point	Where a student will not make it to the Final Certification achievable

(where and as applicable)	from this Programme of Studies (as per Programme Regulations), one might wish to look into Exit Point possibilities as may be applicable to this programme for studies. Further information, is available at https://www.mcast.edu.mt/college-documents/, kindly refer to *DOC 077 Procedure for the processing of Claims for Certificates at Interim Exit Points.*	
Contact details for Further Learning Opportunities	The MCAST Career Guidance Team, offers the service of qualified and experienced Career Advisers who will be very willing to discuss with potential applicants the course which best achieves one's career ambitions, as well as exploring one's education route, or similar. **MCAST Career Guidance** Tel: 2398 7135/6 Email: career.guidance@mcast.edu.mt	
Regulatory Body/ Competent Authority Contact Details *(where applicable - in the case of a programme leading to Regulated Profession)*	Not Applicable	

Programme Structure	Unit Code	Unit Title	ECTS	Year	Semester
	ASENV-306-1401	The Marine Environment and Commercial Fishing Ecology	6	1	Year
	ASFFG-306-1401	Fish Farming	6	1	Year
	ASFFG-306-1402	Water Quality in Fish Farming	6	1	Year
	ASFSH-306-1401	Fish Biology	6	1	Year
	ASFSH-306-1402	Fish Health	6	1	Year
	ASORF-306-1401	Pet Water Fish Care	6	1	Year
	CDKSK-304-2313	English	4	1	Year
	CDKSK-304-2314	Mathematics	4	1	Year
	CDKSK-304-2315	Il-Malti	4	1	Year
	CDKSK-304-2501	Community Social Responsibility	4	1	Year
	CDKSK-304-2317	Science and Technology	4	1	Year
	CDKSK-304-2316	Information Technology	4	1	Year

Allocation of Total Learning Hours (per Unit)	The total learning hours required for each unit or module are determined as follows:			
	Credits (ECTS)	Indicative contact hours[1]	Self-Learning and Assessment Hours[3]	Total Student workload (hrs)[2]
	1	5 – 10 hrs	20 - 15 hrs*	25 hrs
	2	10 – 20 hrs	40 - 30 hrs*	50 hrs

3	15 – 30 hrs	60 - 45 hrs*	75 hrs
4	20 – 40 hrs	80 - 60 hrs*	100 hrs
6	30 – 60 hrs	120 - 90 hrs*	150 Hrs
9	45 – 90 hrs	180 - 135 hrs*	225 hrs
12	60 – 120 hrs	240 - 180 hrs*	300 hrs

Note: The 'Self-Learning and Assessment Hours'[3] amount to the difference between the 'Indicative Contact Hours'[1] and the 'Total Student Workload'[2]

APPENDIX 1

MINIMUM CREDITS FOR QUALIFICATIONS AT DIFFERENT LEVELS

MQF Level	Minimum ECTS Required for a Qualification*
8	
7	30
6	180
5	30
4	30
3	60
2	60
1	40

*Programmes assigned fewer ECTS than indicated will be classified as Awards.

Reference: Fig.1: p48, Malta Further and Higher Education Authority (MFHEA) (October 2024).
Referencing Report, 5th Revised Edition.

APPENDIX 2

EXAMPLES OF QUALIFICATION TYPES AT A SPECIFIC MQF LEVEL

MQF Level	Examples of qualification types at a specific MQF level (The list in this column is not exhaustive)	Number of ECTS *
8	Doctoral Programmes:	
	PhD	N/A
	Professional Doctorate	180
7	Master's Degree	90
	Postgraduate Diploma	60
	Postgraduate Certificate	30
6	Bachelor's Degree	180
	Bachelor's Honours	240
5	Undergraduate Higher Diploma	90
	Undergraduate Diploma	60
	Undergraduate Certificate	30
	VET Level 5	60
4	Advanced Diploma	120
	Pre-Tertiary Certificate	30 - 60
	MATSEC Matriculation Certificate (Advanced and Intermediate)	N/A
	VET Level 4	120
3	Certificate	60
	MATSEC Secondary Education Certificate	N/A
	VET Level 3	60
2	Foundation Certificate	60
	MATSEC Secondary Education Certificate	N/A
	VET Level 2	60
1	Introductory Certificate	40
	VET Level 1	40

* Programmes assigned fewer ECTS than indicated will be classified as Awards.

Reference: Fig.2: p48, Malta Further and Higher Education Authority (MFHEA) (October 2024). Referencing Report, 5th Revised Edition.

ASENV-306-1401: The Marine Environment and Commercial Fishing Ecology

Unit level (MQF/EQF): 3
Credits: 6
Delivery Mode: Face to Face
Total Learning Hours: 150

Unit description

The marine environment of the Mediterranean is a key factor for the development of two fishery sectors: (1) commercial fishing and (2) fish farming. Understanding of the environment and its basic features is a prerequisite for an efficient fishery business. Hence, at the start of this unit learners will be introduced to ecosystems of the Mediterranean, including their habitats and communities.

In addition, learners will learn about surveying techniques in fishery and basic related equipment. They will acquire the knowledge about the main physical, chemical and biological parameters of sea water. They will be able to perform water sampling and analysis as well as interpret the achieved results. Since fishery and aquaculture are important and developing sectors of the Maltese economy, with opportunities for further development in the future, learners will get informed about the economic importance of commercial fishing.

Moreover, learners will acquire knowledge about the economic and production features of this sector. In addition, the fish species targeted by fishermen in Malta will be examined within the unit.

Learning Outcomes

On completion of this unit learners should be able to:

1. *Know a wide range of floral and faunal species of different marine ecosystems.*
2. *Understand the relationships between the different components of a range of marine ecosystems.*
3. *Know how to survey a water body.*
4. *Understand the importance of fishing for the Maltese Islands.*
5. *Know a wide range of fish species targeted by fishermen.*

ASFFG-306-1401: Fish Farming

Unit level (MQF/EQF): 3
Credits: 6
Delivery Mode: Face to Face
Total Learning Hours: 150

Unit description

The goal of this unit is to familiarise learners with fish farming in seawater. Commercial seawater fish farming has been developing since the 1960s in the Mediterranean countries and in many of them it became an important export-oriented business.

In the introduction part of this unit, learners will be introduced to the most common fish species for fish farming and their economic significance for the fish farming business.

Learners will be acquainted with key features of different fish farming systems such as intensive, extensive and recycle aquaculture systems (RAS). Special emphasis will be given to intensive fish farming of sea bass, sea bream, and tuna fish.

In relation to intensive fish farming techniques, learners will learn about the processes of propagation and spawn production, the methods of fish rearing including the kinds of fish feed, feeding procedures of farming fish, and food conversion. This unit will introduce learners with elementary requirements of fish for space and water quality. Moreover, the topics related to the harvesting of market-ready fish and slaughter methods will be presented. Learners will be informed about the equipment, vessels and jobs specific for fish farming. In addition; the unit content includes information about important legal requirements in fish farming.

Since the stocking in tuna fish farming is based on wild catch of small tuna, learners will also be introduced to the process of catching and towing of young tuna to the fish farm.

Learning Outcomes

On completion of this unit learners should be able to:

1. *Understand the main phases of fish farming for different species.*
2. *Describe common types of feed and fish's requirements for food.*
3. *Understand the principles of production of closed-cycle production species.*
4. *Describe the types of vessels and jobs in fish farming.*
5. *Interpret important legal requirements in fish farming.*

ASFFG-306-1402: Water Quality in Fish Farming

Unit level (MQF/EQF): 3
Credits: 6
Delivery Mode: Face to Face
Total Learning Hours: 150

Unit description

Fish farming and commercial landing of fish is influenced by many natural factors - especially by the quality of water. The water quality is particularly crucial for intensive fish farming.

In this unit learners will be introduced to the main aspects of seawater quality with an emphasis on its importance for fish farming.

Hence, learners will be provided with the elementary knowledge about the chemical characteristics of seawater that includes chemical composition, dissolved gasses and main chemical processes.

Additional topic that will be considered within this unit is related to the physics of seawater: salinity, density, temperature and optical characteristics. Learners will also learn about biological content of seawater, i.e. beneficial and harmful organisms and microorganisms in aquaculture. They will also be introduced to simple water observing and water analysis techniques by using common tools and equipment.

Moreover, the unit will offer the knowledge about the regular procedures and measures for maintaining the water quality in fish farming.

Learning Outcomes

On completion of this unit learners should be able to:

1. *Describe the chemical characteristics of water which are significant for fish farming and rearing.*
2. *Explain the main physical properties of water important in fish farming and rearing.*
3. *Describe beneficial and harmful biological agents living in water which are vital for fish farming and rearing.*
4. *Understand the water analysis process for the most important chemical, biological and physical factors.*
5. *Explain the regular measures for the sustaining of water quality.*

ASFSH-306-1401: Fish Biology

Unit level (MQF/EQF): 3
Credits: 6
Delivery Mode: Face to Face
Total Learning Hours: 150

Unit description

This unit provides learners with the knowledge of fish-specific biology which is necessary for the understanding of concepts such as genetics, breeding, propagation and nutrition.

In this unit learners will also gain the basic knowledge about fish taxonomy in Maltese, English and Latin.

The unit includes the topics that examine anatomy and morphology of the most important fish farming species. Also, learners will learn about physiology and histology related to the fish species. The main principles of genetics, embryology and reproduction process, will also be considered in this unit. Moreover, the unit contains the topics that refer to the digestion system of fish, as well as information about nutrition and nutrients required in fish breeding.

Learners will obtain the necessary knowledge in regard to the listed topics in order to understand the reproduction, growth, and nutrition of the most common species in aquaculture.

Learning Outcomes

On completion of this unit learners should be able to:

1. *Understand fish taxonomy and the division of fish species.*
2. *Describe the main fish organs and their function for the most important fish species.*
3. *Understand the principles of genetics and inheritance in fish.*
4. *Describe the reproduction cycles of a range of fish.*
5. *Explain the digestion process and the role of fish nutrients.*

ASFSH-306-1402: Fish Health

Unit level (MQF/EQF): 3
Credits: 6
Delivery Mode: Face to Face
Total Learning Hours: 150

Unit description

This unit will acquaint learners with fish health issues. Learners will become familiar with basics of fish haematology and pathology to be able to cope with fish health problems and disorders. This includes basic knowledge of causes of diseases and disorders, the unit will also introduce learners to preventive and healing treatments in case of common diseases, nutritional disorders and parasite attacks. Additionally, learners will be informed about the operational principles of main tools and utensils used in fish health procedures.

Learners will be able to observe and spot health problems. Also, they will be able to prevent uncontrolled expansion of the problem and to report the observations of fish condition to the experienced staff responsible for fish healing and recovery.

Learners will also be introduced to the ethical, sanitary and safety aspects regarding fish health.

Learning Outcomes

On completion of this unit learners should be able to:

1. *Explain the vital health parameters for healthy fish.*
2. *Describe the most common fish diseases, disorders, and parasites.*
3. *Explain the basic routines for prevention and treatment in fish husbandry.*
4. *Understand the main ethical, sanitary and safety standards related to fish health.*
5. *Describe the main tools and utensils used in fish health routines.*

ASORF-306-1401: Pet Water Fish Care

Unit level (MQF/EQF): 3
Credits: 6
Delivery Mode: Face to Face
Total Learning Hours: 150

Unit description

The aim of this unit is to familiarise learners with the basics of pet fish care. They will learn about the different aspects of the business to be able to perform simple routines in pet fish care.

Learners will be introduced to the main segments of pet fish business that includes breeding, maintenance and care. The unit will give an overview of the basic morphology of the most common species, emphasising differential traits of particular species, as well as fish requirements in regard to feed, main meals and feeding techniques.

Furthermore, the unit will consider keeping conditions, such as space, temperature and water characteristics. The learners will acquire the knowledge about pet fish care techniques which include cleaning of aquariums and equipment, as well as handling of fish. Learners will also upgrade their knowledge with the topics regarding typical flora and fauna used for water purification and cleaning or decoration in pet fish business.

Moreover, learners will learn about containers, tools and equipment used in keeping of pet fish.

Learning Outcomes

On completion of this unit learners should be able to:

1. *Describe the different pet fish species.*
2. *Understand pet fish requirements for feed, housing and other abiotic factors.*
3. *Explain ordinary fish care routines.*
4. *Understand the requirements for the setting up of a freshwater aquarium.*

CDKSK-304-2313: English

Unit Level (MQF/EQF): 3
Credits: 4
Delivery Mode: Fully Face-to-Face Learning
Total Learning Hours: 100

Unit Description
This unit is targeted at learners proceeding from a Level 2 vocational programme as well as those whose entry level is directly at Level 3. It therefore takes into consideration both learners who have successfully passed their L2 English unit as well as those who have sat for, or are resitting, their SEC English Language (Y11).

At Level 3, learners are expected to have an intermediate knowledge of English which allows them to independently communicate on topics and scenarios related to everyday situations, these ranging from home, school, and work to social and public settings. For the purposes of bridging linguistic skills with vocational contexts, general emphasis is laid on work and public settings.

English at Level 3 encourages learners to combine their technical knowledge of their vocational subject with their growing knowledge of general English. They will be introduced to specialised vocabulary and information related to their area of vocational interest, to descriptions of materials and their properties, equipment and its usage. They will be exposed to video content and a range of short texts of a technical and non-technical nature, as well as learn how to conduct basic research to produce short but effective work or discipline-specific documents. A fuller understanding of spoken and written English as well as proper association of ideas are also expected at this level.

Learning Outcomes

On completion of this unit the learner will be able to:
1. *Retrieve and interpret information obtained from spoken conversation, a presentation, or a media source.*
2. *Communicate information and ideas verbally on a range of topics, ranging from the vocational to the discipline-specific.*
3. *Retrieve and interpret information present in vocational or discipline-specific texts.*
4. *Show how ideas, whether complementary or contrasting, are to be organised and presented.*
5. *Write short work-related texts, observing format, tone, and style.*
6. *Write longer vocation or discipline-specific texts based on researched information.*

CDKSK-304-2314: Mathematics

Unit Level (MQF/EQF): 3
Credits: 4
Delivery Mode: Fully Face-to-Face Learning
Total Learning Hours: 100

Unit Description

This unit aims to help students understand key mathematical concepts and gain the necessary skills, to be able to use mathematics as a problem-solving and a communication tool in their everyday life and the vocational area they are studying. This unit comprises of three main components: a compulsory component, an elective component and a compulsory final project.

The compulsory component includes one compulsory learning outcome whose mathematical content and respective criteria are key in everyday life and across all vocational areas. On the other hand, the elective component is made up of a set of elective learning outcomes which include mathematical content and respective criteria whose relevance varies across different vocational areas. Consequently, every Institute can select the learning outcomes (50 marks) whose content and criteria will help students in the particular vocational area.

Moreover, this unit will give students the opportunity to use mathematics in a project related to the vocational area they are studying. Consequently, students will experience the relevance of the subject at first-hand and hence engage better in their vocational studies.

Considering the importance of technology in today's world, technological tools, such as scientific calculators and computer software, will be used to assist students in their work and enhance their understanding and confidence in the subject.

By the end of this unit, students should demonstrate readiness and competency to independently apply mathematical techniques in solving problems and be able to communicate findings using appropriate vocabulary and rigor.

Core Learning Outcomes

On completion of this unit the learner will be able to:
1. *Compute numerical calculations involving fractions, decimals, percentages and units of measure.*
2. *Apply Mathematics in a practical way.*

Elective Learning Outcomes

On completion of this unit the learner will be able to:

1. *Apply basic numerical skills in personal, household and business financial contexts.*
2. *Carry out algebraic manipulations.*
3. *Use algebra and graphs to derive information from straight lines and their equation.*
4. *Work with shapes and angles.*
5. *Summarise and interpret statistical data both graphically and numerically.*

CDKSK-304-2315: Il-Malti

Il-Livell tal-Unità: (MQF/EQF): 3
L-Għadd ta' Kreditu: 4
Mod ta' Tagħlim: Preżenti
Total ta' Sigħat ta' Tagħlim: 100

Deskrizzjoni Ġenerali tal-Unità

Il-Malti huwa l-ilsien nazzjonali tal-pajjiż. Huwa l-ilsien nattiv tal-istudenti li se jkunu qed isegwu din l-unità. Għaldaqstant m'hemmx dubju dwar l-importanza li l-istudenti għandhom ikunu profiċjenti fi lsien pajjiżhom, l-ilsien li ġeneralment iridu jikkomunikaw bih, kemm fil-ħajja tagħhom ta' kuljum u b'mod speċjali fuq il-post tax-xogħol.

Din l-unità hija msejsa fuq l-erba' ħiliet prinċipali tal-lingwa: 1) il-Qari; 2) is-Smigħ; 3) il-Kitba u 4) it-Taħdit. L-għan prinċipali ta' din l-unità huwa li l-istudenti jiġu mħarrġa f'dawn l-erba' ħiliet biex jibnu fuq dak li diġà jafu u jkomplu jtejbuh. Fil-fatt, il-livell ta' din l-unità jkompli jittarraġ fuq il-livell miksub fl-unità tat-tieni livell. F'din l-unità, il-materjal kopert ikun aktar kumpless mill-materjal tal-unità preċedenti partikularment fejn jidħol vokabolarju tekniku marbut mal-qasam vokazzjonali. F'din l-unità l-istudenti huma mistennija wkoll jaħdmu b'aktar awtonomija u responsabbiltà u jkunu mħeġġa jieħdu aktar inizjattiva waħedhom.

Il-kuntest tat-tagħlim u t-tgħallim tal-erba' ħiliet huwa ġeneralment marbut mal-qasam vokazzjonali tal-istudenti. Għaldaqstant, f'din l-unità l-istudenti se jkunu preżentati prinċiparjament b'materjal bil-Malti li jinteressahom mill-qrib u li se jkompli jkabbar l-għarfien ġenerali tagħhom dwar il-qasam vokazzjonali magħżul minnhom. Temi kurrenti oħra dwar il-ħajja ta' kuljum jistgħu wkoll jiġu preżentati u mistħarrġa. It-temi mistħarrġa f'dan il-livell jitolbu aktar impenn minn dawk tat-tieni livell u l-kuntesti tat-temi jistgħu ma jkunux dejjem ta' natura familjari mal-istudenti.

Il-qari, is-smigħ, il-kitba u t-taħdit huma l-qofol tal-komunikazzjoni. Kull persuna Maltija għandha tħossha kunfidenti meta tiġi biex tikkomunika bil-Malti, kemm verbalment u kemm bil-kitba. Biex l-istudenti jtejbu l-Malti miktub tagħhom, f'din l-unità se tkun qed tingħata wkoll importanza lill-ortografija, b'enfasi fuq ir-regoli tal-grammatika. L-għan mhuwiex li l-istudenti jsiru familjari ma' listi ta' termini grammatikali jew li l-istudenti jaħdmu eżerċizzji ripetuti tal-grammatika. L-għan hu li jkunu jafu jħaddmu r-regoli tal-grammatika biex jiktbu b'Malti ortografikament tajjeb. Dan se jkun qed isir dejjem f'kuntest, b'mod partikulari f'kuntest marbut mal-qasam vokazzjonali tal-istudenti. F'din l-unità, se tkun ukoll qed tingħata importanza partikulari lid-deċiżjonijiet meħuda mill-Kunsill Nazzjonali tal-Ilsien Malti fl-2008 (Deċiżjonijiet 1) u fl-2018 (Deċiżjonijiet 2).

Il-Kisbiet mit-Tgħallim

Biex l-istudent jikseb din l-unità irid juri li kapaċi:

1. *Jidentifika t-tifsir primarju u sekondarju ta' testi moqrija aktar kumplessi.*
2. *Jagħraf il-messaġġi diretti u indiretti ta' kuntesti ta' smigħ aktar kumplessi.*
3. *Jipproduċi kitbiet b'temi tekniċi u aktar kumplessi.*
4. *Jikkomunika b'Malti tajjeb dwar suġġetti tekniċi u aktar kumplessi permezz tat-taħdit.*
5. *Japplika r-regoli tal-grammatika tajjeb għal tisħiħ fl-ortografija.*

CDKSK-304-2501: Community Social Responsibility

Unit Level (MQF/EQF): 3
Credits: 4
Delivery Mode: Fully Face-to-Face Learning
Total Learning Hours: 100

Unit Description

This key skill presents an opportunity for MQF level 3 learners to work upon their analysis and evaluation capabilities, whilst working upon various employability skills. Through the compilation of a write-up, the learners will be drafting a personal biography, which highlights some of their achievements and future aspirations. The write-up will also feature the rationale behind the selection of a specific community work experience. Additional information, descriptions and anecdotes related to the community work will be provided via visual and written means.

As each learner goes through this educational journey, opportunities for social interactions and practical groupwork activities will also be presented. Through these opportunities, students will further grasp the essence of teamwork and its relevance towards becoming more competitive and employable.

Following the delivery of a selected number of educational topics, some of which targeting 'The 2030 Agenda for Sustainable Development', the learners are to select a topic of preference and deliver relating information through a public speech. The main essence of the contents of the speech are to be acquired through referenced research. The learners are to increase the success rate of their speech delivery through the proper structuring and compilation of a visual medium compiled via software, such as PowerPoint / Canva.

Additionally, learners will also be presented with multiple opportunities to conduct self-reviews and evaluations during assessment periods. This practice is embedded within all of the assessments, these being the write-up, the teamwork activity, and the presentation. Educators will guide the learners into practicing and understanding the importance of analysing and evaluating information and oneself, as, apart from increasing one's employability skills, this brings forth numerous opportunities for growth.

Learning Outcomes

On completion of this unit the learner will be able to:
1. *Organise selections of information within a write-up.*
2. *Shows the ability to work in teams.*
3. *Elaborate upon a topic and/or issue in front of an audience.*
4. *Appraise the quality of one's own effort and contributions within assigned tasks.*

CDKSK-304-2317: Science and Technology

Unit Level (MQF/EQF): 3
Credits: 4
Delivery Mode: Fully Face-to-Face Learning
Total Learning Hours: 100

Unit Description

This unit enables learners to explore the role of science in a wider context. **This unit has eight elective learning outcomes, from which four must be selected by the institute.** Depending on the selection of the elective criteria, this unit enables learners to explore the role of science in a wider context. The learning outcomes will focus on the ethical issues in science and health literacy. Learners will understand the meaning of ethics and the importance of ethics in scientific research and development. They will also learn about the importance of health literacy and to understand and use information to make decisions about their health. The learners may also more familiar with the physical and chemical principles related to their individual vocational area. Also, they will understand the connection between climate change and human health. This learning outcome will help the learner understand how our vocational area and everyday life contribute to climate change. Furthermore, the impact of climate change on own personal life will be assessed. Learners may also enhance their investigative skills through a site visit applicable to vocational areas, for example to include option to visit – quarry, scrap yard, waste disposal area, amongst other. During this session, the learners will be empowered to take action to develop a project that addresses, for example, an environmental issue.

Elective Learning Outcomes

On completion of this unit the learner will be able to:
1. *Investigate ethical issues in science and scientific developments.*
2. *Use information and services to make informed health-related decisions.*
3. *Investigate processing of materials relevant to individual vocational area.*
4. *Apply chemistry principles to vocational area of practice.*
5. *Identify basic chemical reactions.*
6. *Identify the connection between climate change and human health.*
7. *Carry out a fieldwork session related to scientific research and development.*
8. *Identify the link between the physical world and everyday day life situations.*

CDKSK-304-2316: Information Technology

Unit Level (MQF/EQF): 3
Credits: 4
Delivery Mode: Fully Face-to-Face Learning
Total Learning Hours: 100

Unit Description

This unit aims to develop basic computer knowledge and skills needed in real-life situations. In a supportive environment, the learner will be challenged to understand how to use various real-life applications belonging to a productivity suite with the aim of providing to our learners the necessary skills required to use common computer applications necessary during their studies. By the time learners complete this unit they will be increasingly independent users of personal computers and will have a broad understanding of how ICT can help their learning, their work, and their social life. They will have a well-developed ability to decide when and how to use ICT and will be aware of the limitations associated with this use.

Through this unit the learners will achieve a broad knowledge of ICT and will be able to use ICT to carry out several increasingly complex tasks. They will become competent in using word processing, spreadsheet, and presentation software to create, format and finish documents, workbooks and slide shows that contain various elements. This unit also introduces terms related to artificial intelligence and how it is being used in real life situations, information literacy and the use of online communities and online tools to build and maintain an online presence.

Learning Outcomes

To choose 4 Learning Outcomes out of 5:

On completion of this unit the learner will be able to:

1. *Use Office Productivity Essentials to create documents and presentations.*
2. *Identify concepts related to Artificial Intelligence.*
3. *Use Online Essentials Tools.*
4. *Identify concepts related to Information Literacy.*
5. *Use a spreadsheet to produce accurate work outputs.*