MCAST

Apprenticeship Programmes

Information Catalogue

Academic Year 2024/25

November 2024

Dear Apprenticeship Partner,

MCAST Apprentices are steadily becoming the future workforce.

Are you interested in recruiting an MCAST Apprentice?

The College provides a variety of vocational programs and attendance modalities. This catalogue provides a list of MCAST full-time programmes (for the new cohorts of the 2024/25 academic year intake) that include an accredited apprenticeship component. The catalogue provides all the necessary information, including the respective attendance modalities and reimbursement rates.

Become an MCAST Industry Partner and advertise your apprenticeship vacancies directly to our prospective apprentices on our website https://apprenticeship.mcast.edu.mt

You can also participate in the MCAST Annual Apprentice Onboarding Event (held every year on Campus during the month of January) – **the market place where prospective apprentices meet prospective employers.**

We hope that this Catalogue provides you with all the information you need to participate as an MCAST Apprenticeship Partner.

We are all here to support you. For further information, please contact us on apprenticeship.vacancies@mcast.edu.mt or on telephone / mobile numbers provided below.

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www.mcast.edu.mt
www.mcast.edu.mt/apprenticeships-mcast/

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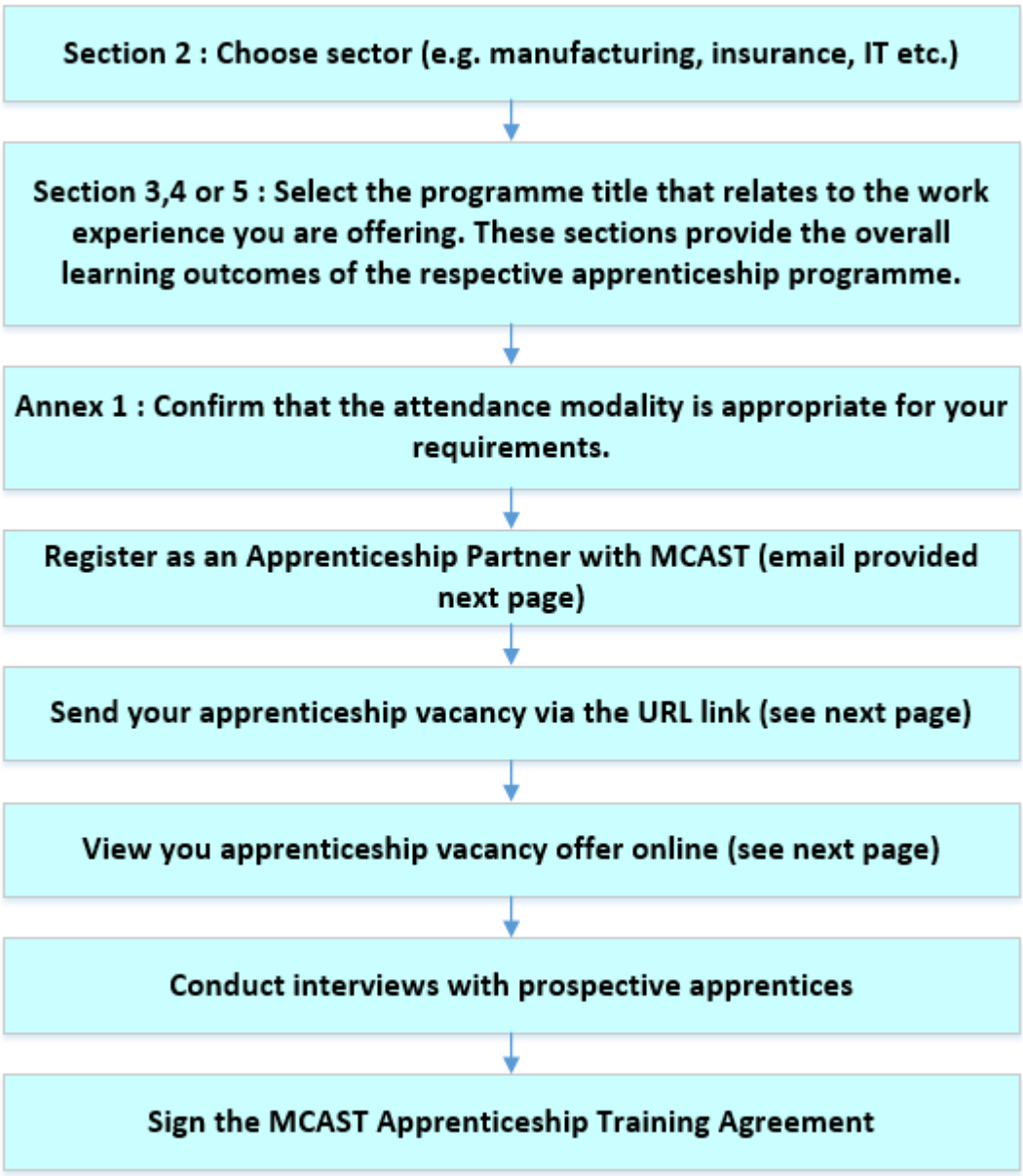

Note: MCAST can offer flexible apprenticeship attendance modalities for both employer and student. Please do not hesitate to contact us to discuss your requirements.

Section 1.2 : Contact information

To request information or to become an MCAST Apprenticeship Partner, send email to:
apprenticeship.vacancies@mcast.edu.mt

To submit your apprenticeship vacancy:
https://mcastlimesurvey.westeurope.cloudapp.azure.com/387735?lang=en

To view your apprenticeship vacancy
https://apprenticeship.mcast.edu.mt

To view MCAST Apprenticeship Guidebook for Industry Partners
digital-MCAST-Apprenticeship-Guide-1.pdf

To visit MCAST Apprenticeship website
www.mcast.edu.mt/apprenticeships-mcast/

Details of the curriculum of MCAST prorgammes and prospectus is available under 'list of courses' via :
https://mcast.edu.mt/full-time-programmes/
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Section 2: List of Programme Sectors that include an accredited apprenticeship component

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- Electrical and Electronics Engineering
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- Accounting
- Finance and Insurance
- Computer and Network Systems

Section 3 :List of Apprenticeship Programmes delivered at the Main Campus Paola

Section 3.1: Institute of Community Services

Course Title : Diploma in Hairdressing
Modality : 3.2
Delivered at : MCAST Malta Campus only

Course Objective:

This programme of studies leads to a career in the hairdressing industry. This course allows learners to acquire skills which are relevant to succeed and be competitive in the hairdressing industry. Alternatively, learners may wish to consider furthering their studies by progressing to the Level 4 Advanced Diploma programme in Hairdressing Learners cover a variety of study units such as client consultation, hair cutting and styling for different occasions, hair colouring, perming and straightening. This includes experience within the in-house salon at the Institute of Community Services as well as placements in industry as part of the Apprenticeship scheme. Other modules relate to health and safety practices in the salon and science of hairdressing Learners will also further their skills and competencies. Learners are required to purchase the necessary hairdressing accessories at the beginning of the academic year.

Overall Learning Outcomes

1. Perform hair salon duties safely and effectively.
2. Carry out consultation with the client.
3. Recognise hair, skin and scalp structure of the client.
4. Develop and apply creativity in hairdressing.

Course Title : Advanced Diploma in Hairdressing
Modality : 4.3
Delivered at : MCAST Malta Campus only

Course Objective:

This programme of studies provides greater insight on advanced hairdressing techniques and better understanding of the requirements when working as a salon owner/manager. This course is aimed at learners who have obtained certification in the basic skills of hairdressing and want to proceed to more advanced techniques ranging from consulting to colouring, advanced cutting and styling. This course equips learners with the knowledge and skills to provide a holistic hair service to clients. Learners are given ample opportunity to practice through hands-on practical sessions and professional salon experience. As part of the course, the learners are expected to practice hairdressing services within the in-house salon at the Institute of Community Services. The course also equips learners with competences required to manage a professional hairdressing salon including knowledge in areas such as human resources management, legislative measures, basic accounting and marketing concepts. The MCAST Advanced Diploma in Hairdressing also covers men's haircutting and barbering. Alternatively, learners who complete successfully this two-year full-time course may wish to consider furthering their studies by progressing to a Bachelor in Vocational Education and Training 4.0. Which can lead to becoming a teacher in Vocational Education in secondary schools.
Learners are required to purchase the necessary hairdressing accessories at the beginning of the academic year.

Overall Learning Outcomes

1. Perform in depth hairdressing consultation services;
2. Apply different hair colouring and lightening techniques;
3. Cut, style and dress hair creatively;
4. Manage a hair salon safely and efficiently.

Section 3.2 : Institute of Applied Sciences

Course Title : Advanced Diploma in Applied Science
Modality : 4.1
Delivered at : MCAST Malta Campus only

Course Objective:

This programme of study is aimed at learners who wish to embark on a scientific career in a range of industries such as petrochemical, life sciences, health, pharmaceutics and the environment. The programme of study contains a wide range of science and technology study units that reflect aspects of employment within relevant industries. The learners will appreciate how the fundamental principles of science relate to the technological operations of the workplace. They will develop the necessary skills to work in a laboratory environment within the manufacturing industry, and to apply basic principles within the workplace.

Overall Learning Outcomes

1. Follow and communicate procedures in the scientific workplace.
2. Use scientific techniques to understand technological processes within an organization.
3. Understand how science-based organizations develop products and deliver services.
4. Understand the requirements of science technicians in an organization.

Course Title : Advanced Diploma in Food Technology
Modality : 4.1 and/or 4.10
Delivered at : MCAST Malta Campus only

Course Objective:

The food and beverage industry is a dynamic sector which requires a number of highly skilled technical people to cope with constantly changing customers' demands and new innovative production technologies. Food technologists monitor day-to-day manufacturing activities; ensure that safety and quality standards are met; improve existing products and design innovative foods and drinks. This is a multidisciplinary programme offered across four Institutes and includes topics on food analysis, product manufacturing, food safety, cost accounting and product design. The programme provides learners with the opportunity to gain knowledge of the industry and insights into the relevant tools and skills through work-based elements. This programme prepares learners for employment within SMEs as well as medium to large organizations which produce a range of food and drink products.

Overall Learning Outcomes

1. Understand how food and beverage organizations operate.
2. Understand the importance of food safety and apply Hazard Analysis and Critical Control Point (HACCP) principles.
3. Apply scientific methods and use fundamental scientific principles to food manufacturing problems. 4. Assist in the development of new innovative food and beverage products.

Section 3.3 : Institute of Business Management and Commerce

Course Title : Advanced Diploma in Accounting
Modality : 4.1
Delivered at : MCAST Malta Campus only

Course Objective:
This programme aims to give learners a very good grounding in the studying of Accounts. Study areas range from aspects of financial management accounting to the use of accounting software and more generic areas of key skills. The course includes hands-on experience through Apprenticeship where students will learn by doing and gain experience first-hand on the application of the theory. Students who finish the course will have sufficient accounting knowledge and skills to commence employment in an accountancy field, or to enable them to further their studies to obtain qualifications from recognised chartered accountancy bodies.

Overall Learning Outcomes
1. Recognise the nature and role of accounting in the business context;
2. Apply accounting concepts, other regulatory frameworks and legislations to prepare financial statements of various types of organisations;
3. Develop analytical and evaluation skills to understand, evaluate and communicate financial information to various business stakeholders;
4. Apply accounting knowledge and skills to be considered suitable for positions in the accounting field..

Course Title : Advanced Diploma in Business and Administration
Modality : 4.1
Delivered at : MCAST Malta Campus only

Course Objective:
This programme will allow learners to study the different areas of business and office administration. It is aimed either at students who aspire to one day open up their own business or follow in their family business, or else to work in the administration of a company at a junior level. This generic course offers a good basis into the main areas of business administration including office administration, accounts, IT application skills, logistics and operations management, project management, marketing, recruitment, and business law among others. The course, which is assessed through a variety of scenario related assessments, also sees learners go out on Apprenticeship where a holistic hands-on and practical approach is adopted.

Overall Learning Outcomes
1. Recognise the basic functional areas of a business and undertake tasks within such areas.
2. Operate effectively on an individual level within a business setting.
3. Recognise the internal and external influences that impact the performance of a business.
4. Make use of generic IT software applications used in business..

Course Title : Advanced Diploma in Finance and Insurance
Modality : 4.1
Delivered at : MCAST Malta Campus only

Course Objective:

This course is aimed at people who would like to venture in one of the many careers related to financial services. The first year of studies introduces learners to generic areas of financial services including the world of insurance. In the second year of studies, learners will then choose an area of specialisation. Specialisation can be either in financial services or else in insurance. This approach ensures that any learner following this course is exposed to different areas of the financial services world, thus giving them better flexibility in career prospects. Learners choosing the main area of expertise will be very strong in the specific area chosen, while having a good understanding of the other area.

Overall Learning Outcomes

1. Understand the nature of the insurance or financial market, their structure and main features according to chosen area.
2. Apply literacy, numeracy and soft skills which are considered as a necessity to be an effective team player within a Financial and Insurance Services Organisation.
3. Understand the need for the value of effective customer services within these sectors.
4. Understand the ways in which regulation and legislation impact on and are relevant to an organization and the financial services and Insurance industry in general.

Course Title : Advanced Diploma in Marketing
Modality : 4.1
Delivered at : MCAST Malta Campus only

Course Objective:

This programme is aimed at giving learners the knowledge and knowhow of the main areas related to marketing. Learners will address areas of Digital Marketing, Sales, Advertising, Public Relations and Customer Care, amongst others in some detail. The insight in these different areas provides the student with the ability to work in different areas of marketing. The learner will also have the opportunity to apply the theory learned in class in practice through the Apprenticeship placement.

Overall Learning Outcomes

1. Understand the marketing concept.
2. Explain the full range of marketing activities utilised by different organisations, including the marketing mix elements, market research, and digital tools available for marketing practice.
3. Describe the fundamental techniques applied to the marketing of products in different industries.
4. Use effectively marketing tools and techniques in real life marketing scenarios.

Section 3.4 : Institute of Engineering and Transport

Course Title : Diploma in Aircraft Maintenance (incorporating EASA Part-66 Category A Basic Course)
Modality : 3.4
Delivered at : MCAST Malta Campus only

Course Objective:
This programme is designed specifically to equip learners with the necessary theoretical understanding of aircraft maintenance and related systems. This process is backed by practical experience in dedicated workshops at MCAST and also through work-based learning. The course incorporates the EASA Part-66 Category A basic course which will allow a student to sit for the module exams within MCAST and thereafter, apply for the licence examinations in accordance with Regulation (EU) No 1321/2014. Also, subject to authorisation by the Part-145 Organization, the licence will permit the holder to issue Certificates of Release to Service following minor scheduled works that may include line maintenance, defect rectification and component changes..

Overall Learning Outcomes
1. Develop basic theoretical knowledge of the aircraft's applicable systems, structure, operations, maintenance, repair, and troubleshooting according to the approved maintenance data.
2. Understand how to use correctly the manuals and the approved procedures.
3. Make decisions in respect of fault diagnosis and rectification to the maintenance manual level.
4. Prepare for the examinations organised by the Transport Malta Civil Aviation Directorate with regards of Part-66 Category A licence.

Course Title : Diploma in Aircraft Structures and Repairs
Modality : 3.3
Delivered at : MCAST Malta Campus only

Course Objective:

This MCAST diploma is intended to train the learner in competences related to Aircraft Structures and Repairs that are essential for structure repair mechanics. This training course will include Basic Aircraft Sheet Metal, Structures Repair Procedures and Human Factors, amongst other modules. It is divided into three main areas, namely: the theoretical element, the practical experience and on-the-job exposure. This is an opportunity for individuals to commence or develop their career in the aviation industry.

Overall Learning Outcomes

1. Outline the safety procedures required when conducting repairs.
2. Interpret source documents to be able to perform a repair successfully.
3. Use appropriate materials for a given specific application.
4. Follow the appropriate repair procedure guidelines and techniques.

Course Title : Diploma in Mechanical Engineering
Modality : 3.1
Delivered at : MCAST Malta Campus only

Course Objective:

If learners intend to embark on an engineering career specialising particularly in the mechanical sector, then this course is recommended. This MCAST programme is designed to provide basic theory and practice that can be further enhanced through work experience. Learning takes place by attending lectures in the classroom, workshops and laboratories, and by completing projects and assignments that are often based on realistic workplace situations. The course covers the basic knowledge and practical skills, providing a good foundation for future career opportunities in engineering. Learners are exposed to a deeper knowledge in related subjects such as Mathematics, Physics, Engineering Drawing and Information Technology.

Overall Learning Outcomes

1. Undertake basic mechanical engineering tasks in a safe and effective manner.
2. Interpret mechanical engineering related information, such as drawings and diagrams.
3. Perform basic machining and fabrication processes.
4. Use own initiative to solve basic mechanical engineering problems.

Course Title : Diploma in Aviation, Flight and Cabin Operations
Modality : **3**.1
Delivered at : MCAST Malta Campus only

Course Objective:

This course is designed to provide the learner with basic knowledge and skills to start a career in the aviation industry, such as customer service personnel, passenger and baggage handling, and in-ground services within the airport and may also lead to a position as a cabin crew* subject to further training. The course covers a range of topics, including aviation safety & security, emergency procedures, customer service, and communication skills. This course also trains students on different aspects of air travel, including airport operations, ground and RAMP handling services, and cabin operations. After completing this course, the learner can further their studies at MCAST within the aviation industry by choosing either the Advanced Diploma in Aviation, Flight and Cabin Operations or the Advanced Diploma in Transportation, Logistics and Supply Chain Management, or else they can start to work in various positions within the aviation industry.
*Cabin crew attestation not included.

Overall Learning Outcomes

1. Demonstrate basic skills in general aviation operations.
2. Explain RAMP operations.
3. Follow emergency and safety procedures within an aviation terminal and also on an aircraft.
4. Examine the role of ground and cabin personnel within an aviation setup.

Course Title : Advanced Diploma in Aircraft Maintenance (Aeroplanes – Turbine Engines)
Modality : 4.7
Delivered at : MCAST Malta Campus only

Course Objective:

This programme is designed to equip learners with the necessary theoretical knowledge of aircraft maintenance and related mechanical systems at technician level. This is also backed by practical experience in our workshops. Learners attending this course will be prepared to sit for the relative examinations organised by awarding bodies, and which may lead to being awarded the EASA Part-66 Category B1.1 licence. Subject to authorization by the Part-145 Organization, the licence will permit the holder to issue Certificates of Release to Service following scheduled works that may include line maintenance, defect rectifications, aircraft structure, power plants and mechanical and electrical systems. Throughout the course, Civil Aviation Directorate examination fees will be paid by the learner.

This course is a highly innovative programme in the sector and gives the learner the opportunity to obtain an Advanced Diploma apart from sitting for the EASA examinations. Successful learners can then join the aviation maintenance industry.

Overall Learning Outcomes

1. Develop a theoretical knowledge of the aircraft`s applicable systems, structure, operations, maintenance, repair, and troubleshooting according to the approved maintenance data.
2. Use the manuals and the approved procedures correctly.
3. Make decisions in respect of fault diagnosis and rectification to the maintenance manual level.
4. Prepare for the examinations organised by the Transport Malta Civil Aviation Directorate with regards of Part-66 Category B1.1.

Course Title : Advanced Diploma in Aircraft Maintenance (Avionics)
Modality : 4.7
Delivered at : MCAST Malta Campus only

Course Objective:

This programme is designed to equip learners with the necessary theoretical knowledge of aircraft maintenance and related electrical and avionics systems at technician level. This is also backed by practical experience in dedicated workshops. Learners attending this course will be prepared to sit for the relative examinations organised by awarding bodies, which may lead to being awarded the EASA Part-66 Category B2 licence. Subject to authorisation by the Part-145 Organization, the licence will permit the holder to issue Certificates of Release to Service following maintenance on electrical and avionics systems. This training programme includes work-related training and practice. Applicants have to be able to work within the industries concerned.

This course is a highly innovative programme in the sector and gives the learner the opportunity to obtain an Advanced Diploma apart from sitting for the EASA examinations. Successful learners can then join the aviation maintenance industry.

Overall Learning Outcomes

1. Develop a theoretical knowledge of the aircraft's applicable systems, structure, operations, maintenance, repair, and troubleshooting according to the approved maintenance data.
2. Use the manuals and the approved procedures correctly.
3. Make decisions in respect of fault diagnosis and rectification to the maintenance manual level.
4. Prepare for the examinations organised by the Transport Malta Civil Aviation Directorate with regards of Part-66 Category B2 licence.

Course Title : Advanced Diploma in Aviation, Flight and Cabin Operations
Modality : 4.1
Delivered at : MCAST Malta Campus only

Course Objective:

This course is designed to equip individuals with the necessary understanding and an all-round introduction to the aviation industry for those who wish to further their career in one of its occupational areas. It may lead to roles in airports such as passenger liaison, ramp work, cargo operations and ground handling, flight operations and customer service.
The course is structured to give learners an overview and preparation to specialised areas that interest career aspirations within aviation. The course covers the appropriate fundamentals for progression onto further aviation specialisation in the sector. The theoretical elements are supplemented with practical elements. Successful students can progress to other higher qualification courses, such as, the Higher Diploma in Transportation, Logistics and Supply Chain Management, and the Bachelor of Arts (Honours) in Business Enterprise.

Overall Learning Outcomes

1. Discuss the major operations in the aviation industry.
2. Apply the necessary theoretical and practical understanding of operation in airport terminals and aircraft operation environments.
3. Apply the legal requirements in the aviation industry.
4. Show competence and develop skills in the principal areas of the Aviation Operation Industry.

Course Title : Diploma in Electrical Installations
Modality : 3.1
Delivered at : MCAST Malta Campus only

Course Objective:

This programme serves as an initial step for those who are interested in pursuing a career in electrical systems, such as that of an Electrician within the construction industry. This course is designed to provide basic theory and practice related to electrical installations, that are then enhanced through the work-based learning. The course consists of both key skill units and vocational units, of which mostly are carried out in the workshops and laboratories. This course provides a good foundation for future career opportunities in engineering and may also serve for progression to level 4 engineering courses.

Overall Learning Outcomes

1. Interpret and follow safety requirements in compliance with the law for electrical installations in construction environments.
2. Interpret wiring regulations and requirements for domestic electrical installations.
3. Design and implement domestic electrical installations to given requirements.
4. Troubleshoot and repair existing single-phase electrical installations.
5. Explain different ways in which electrical devices operate, and the science behind them..

Course Title : Diploma in Engineering (Electronics)
Modality : 3.1
Delivered at : MCAST Malta Campus only

Course Objective:

This programme serves as an initial step for those who are interested in pursuing a career in electronics. This course is designed to provide basic theory and practice related to electronics, that are then enhanced through the work-based learning. The course consists of both key skill units and vocational units, of which mostly are carried out in the workshops and laboratories. This course provides a good foundation for future career opportunities in engineering and may also serve for progression to level 4 engineering courses.

Overall Learning Outcomes

1. Work safely, efficiently and effectively in the engineering workplace.
2. Use mathematical principles related to science and engineering principles.
3. Assess the function and operation of electrical and electronic system components.
4. Identify basic PC and networking systems.
5. Maintain and troubleshoot basic electronic circuits.

Course Title : Advanced Diploma in Electrical Systems
Modality : 4.8
Delivered at : MCAST Malta Campus only

Course Objective:

This course is intended for learners who wish to pursue a career as technicians in electrical power systems in both the domestic and the industrial sectors. The course includes the requirements set by the Regulator for Energy and Water Services (REWS) for the Electrical Wireman's Authorisation A and Authorisation B. This ensures a solid technical competence and understanding of the regulations and health and safety requirements governing the electrical installation industry. This course contains modules related to Photovoltaic Systems, Building Services and Electronic Control Systems that give candidates a solid grounding in the technologies involved in the building services industry. Candidates will also receive exposure to Mechanical Workshop practice.

Overall Learning Outcomes

1. Work safely, communicate effectively in a team and take responsibility of work in an engineering context
2. Understand domestic and industrial electrical principles to apply them in real electrical installation situations
3. Design, perform and test domestic and electrical installations and machinery according to regulations and requirements
4. Troubleshoot, repair and modify existing domestic and industrial electrical installations, motors and switchgear.
5. Explain different ways in which electrical devices operate, and the science behind them.

Course Title : Advanced Diploma in Robotics, Drone Technology, Automation and Artificial Intelligence
Modality : 4.1
Delivered at : MCAST Malta Campus only

Course Objective:

This course is intended for learners who wish to pursue a career as technicians in electrical power systems in both the domestic and the industrial sectors. The course includes the requirements set by the Regulator for Energy and Water Services (REWS) for the Electrical Wireman's Authorisation A and Authorisation B. This ensures a solid technical competence and understanding of the regulations and health and safety requirements governing the electrical installation industry. This course contains modules related to Photovoltaic Systems, Building Services and Electronic Control Systems that give candidates a solid grounding in the technologies involved in the building services industry. Candidates will also receive exposure to Mechanical Workshop practice.

Overall Learning Outcomes

1. Program an industrial robotic, automation and drone system.
2. Recognise the purpose, functionality and need of a robotic, drone and automation system.
3. Construct and test analogue and digital electronic circuits to the required specification.
4. Apply and use 3D technologies for an engineering system.
5. Identify the basic principles of a mechatronic system.

Course Title : Advanced Diploma in Industrial Electronics
Modality : 4.5
Delivered at : MCAST Malta Campus only

Course Objective:

This course provides a comprehensive understanding of electronics including different aspects through classroom and hands-on workshops and projects. Learners are introduced to the design and development of electronic systems in various fields, such as industrial electronics, transportation, manufacturing, computer technology, communications and embedded systems. In the first and second year of the course, core aspects of various electronic technologies are covered, while in the final year, learners must choose elective modules from the following areas: Computer Technology, Biomedical Technology, Telecommunications Technology, Control Technology, Electrical Power Technology, domestic installation, and Manufacturing of Electronic Circuits. The availability of certain elective modules depends on a minimum number of applications.

Overall Learning Outcomes

1. Work safely, communicate effectively in a team and take responsibility of own work in engineering.
2. Identify technologies currently in use in the wider electronics sector.
3. Work on installation and maintenance of electronics equipment and systems.
4. Develop and debug cutting edge electronic systems, and programing code.

Course Title : Diploma in Heating, Ventilation and Air-Conditioning
Modality : 3.1
Delivered at : MCAST Malta Campus only

Course Objective:

This course provides learners with the essential knowledge related to heating, ventilation and air-conditioning (HVAC). It will enable learners to work as assistant technicians engaged in servicing and carrying out maintenance on refrigeration compressors, condensers, evaporators and other accessories. Practical training is carried out in workshops equipped to industry standards. Learners are expected to participate individually and in teams to operate refrigeration and air conditioning equipment. This course also provides learners with the opportunity to further develop their knowledge of key skills subjects such as Mathematics, Science, English, Maltese, Information Technology.

Overall Learning Outcomes

1. Carry out a risk assessment of the surrounding working environment before and after executing an assigned task.
2. Set out and form pipe runs for small commercial installations.
3. Set out equipment and accessories to fit for particular situations.
4. Follow working procedure to ensure quality during installations, servicing and maintenance.

Course Title : Diploma in Welding and Fabrication
Modality : 3.1
Delivered at : MCAST Malta Campus only

Course Objective:

This Apprenticeship course combines theoretical knowledge with practical training, both in College-based industrial workshops and in industry-based apprenticeships. Learners will be expected to participate individually and in teams to fabricate welded products. Learners will have the opportunity to use hand and power tools as well as welding sets, giving particular attention to health and safety considerations. This course also provides learners with the opportunity to further develop their knowledge of key skills subjects such as Mathematics, Science, English, Maltese, Information Technology.

Overall Learning Outcomes

1. Carry out a risk assessment of the surrounding working environment before and after executing an assigned task.
2. Produce simple patterns, developments and templates to fabricate from thin steel plates.
3. Identify materials and compare their properties.
4. Carry out Oxy-Acetylene Gas Welding, Manual Metal Arc Welding and Metal Inert Gas Welding.

Course Title : Advanced Diploma in Heating, Ventilation and Air Conditioning
Modality : 4.5
Delivered at : MCAST Malta Campus only

Course Objective:

This programme of study gives participants the knowledge and skills that are required by the Heating, Ventilation and Air Conditioning (HVAC) industry. Learners will be expected to carry out system modifications and customization. The course is based on College-based training as well as work-based learning. Learners will gain an in-depth knowledge and experience which may lead them to supervisory roles in the HVAC sector. During the course learners are given the opportunity to develop personal skills and attributes essential for a successful performance in related careers. Applicants need to be able to work within the industries concerned.

Overall Learning Outcomes

1. Carry out a risk assessment of the surrounding working environment before and after executing an assigned task;
2. Carry out installations, repairs and planned maintenance of existing systems within local refrigerant handling legislation;
3. Identify materials, refrigerants and equipment that can be used for specific applications;
4. Prepare HVAC components for operation and commissioning.

Course Title : Advanced Diploma in Welding and Fabrication
Modality : 4.5
Delivered at : MCAST Malta Campus only

Course Objective:

This course combines theoretical knowledge and practical training carried out in College-based industrial workshops. Learners will be expected to participate individually and in teams to fabricate welded products. They will learn how to analyse and generate solutions related to typical fabrication using thin plates and pipes. Learners will also be given the opportunity to follow an Apprenticeship to improve their hands-on experience. In order to be able to appreciate the importance of good production management, supervised visits to complex production set-ups are organised during the course. Applicants need to be able to work within the industries concerned.

Overall Learning Outcomes

1. Carry out a risk assessment of the surrounding working environment before and after executing an assigned task;
2. Use tools and equipment related to steel fabrication;
3. Use tools and equipment to prepare and weld steel by a suitable process;
4. Identify and select common engineering materials fit for specific applications.

Course Title : Advanced Diploma in Joinery, Furniture Design and Manufacturing
Modality : 4.5
Delivered at : MCAST Malta Campus only

Course Objective:

This diploma course is aimed at students intending to embark on a career in the woodworking industry. It combines theoretical knowledge and practical training. The practical training is conducted both in College-based industrial workshops and in an industry-based apprenticeship or work placement. Learners will learn how to analyse and provide solutions to typical joinery and furniture products using solid wood and composite materials. Learners will be expected to participate individually and in teams to produce solid wood and composite material manufactured products.

Overall Learning Outcomes

1. Carry out a risk assessment of the surrounding working environment before and after executing an assigned task;
2. Organise to manufacture batched interim products out of solid wood and composite materials;
3. Take off dimensions from drawings to calculate cost, nest and prepare cutting lists;
4. Perform site setting out to assemble complex products.

Course Title : Diploma in Light Vehicle Servicing
Modality : 3.1
Delivered at : MCAST Malta Campus only

Course Objective:

This programme is intended for learners who would like to start developing a strong grounding in the field of motor vehicle engineering and maintenance. Through the various aspects of training that this course provides, learners should be able to gain a good understanding of the basic systems found in light vehicles and how to handle tools safely. Learners will also develop the essential skills of the trade, including the carrying out of basic routine checks, the replacement of parts as required in the periodic servicing of vehicles, and the maintenance of appropriate service records. In this programme, learners will also follow studies in key skills subjects, such as English, Maltese, Mathematics, Information Technology.

Overall Learning Outcomes

1. Carry out checks and maintenance according to safety and road worthiness regulations;
2. Identify fault location and service needs;
3. Maintain appropriate service and repair records;
4. Carry out repairs by replacement faulty basic parts and components.

Course Title : Advanced Diploma in Light Vehicle Maintenance
Modality : 4.5
Delivered at : MCAST Malta Campus only

Course Objective:

This qualification is for candidates wanting to develop some of the essential skills and understanding in motor vehicle systems. Learners will be able to identify hazards and risks in the automotive environment and work safely with equipment, materials and products. Learners should also gain a good knowledge of tools and measuring devices as well as of routine light vehicle maintenance. Learners will be expected to develop an understanding of the construction and operation of common steering, suspension, engines and many important systems (including mechanical and electrical) as well as procedures involved in the inspection, serviceability, adjustments, removal and replacement of components and the evaluation of their performance.

Overall Learning Outcomes

1. Work effectively within the organisational structure of the automotive work environment.
2. Work safely when carrying out light vehicle engine diagnostic and rectification activities.
3. Understand how light vehicle transmission and driveline systems operate.
4. Understand how light vehicle auxiliary electrical systems operate.

Course Title : Advanced Diploma in Operations and Maintenance
Modality : 4.5
Delivered at : MCAST Malta Campus only

Course Objective:

This programme provides the necessary knowledge, understanding and skills for the future to those learners who wish to start a fulfilling career as a technician in the area of operations and maintenance engineering. Learners will have the opportunity to learn basic scientific and mathematical methods to apply in subjects such as thermodynamics and heat engines. Learners will be exposed to the different materials used in common engineering situations and their properties. This qualification not only provides access to more specialist units but it also broadens and deepens the learners' experience in preparation for the real world of work. This course includes work-related training and practice.

Overall Learning Outcomes

1. Describe and identify health and environmental risks related to certain processes and what measures are adopted to control these risks.
2. Communicate and interpret drawings and manuals in the technical fields concerned.
3. Monitor and diagnose faults in engineering systems.
4. Analyse mathematically engineering situations to provide scientific solutions.

Course Title : Advanced Diploma in Manufacturing
Modality : 4.5
Delivered at : MCAST Malta Campus only

Course Objective:

This programme provides the necessary knowledge, understanding and skills to those learners who wish to start an interesting career as a technician in today's highly technological area of manufacturing engineering. This qualification provides access to more specialist units and therefore broadens and deepens the experience in preparation for actual work situations. The learner will learn how to perform basic engineering operations in a safe and efficient manner, whilst safeguarding the environment. The learner will understand basic scientific and mathematical theories and how to apply these to manufacturing engineering processes such as draughting, design, problem solving, and machining. This course includes work-related training and practice. Applicants have to be able to work within the industries concerned..

Overall Learning Outcomes

1. Describe and identify health and environmental risks related to certain processes as well as the measures that are adopted to control them.
2. Communicate and Interpret drawings and manuals in the technical fields concerned.
3. Choose appropriate tools and manufacturing processes for the implementation of work projects.
4. Apply mathematical and scientific principles to solve engineering related problems.

Course Title : Diploma in Construction Engineering
Modality : 3.1
Delivered at : MCAST Malta Campus only

Course Objective:

This course consists of College-based training on various skills related to the building and construction industry. It enables the learners to work in the sector or to continue their studies in related vocational areas, including Construction, Civil Engineering or Building Services. During this course of study learners will be introduced to different types of technical drawings used in the construction industry. They learn how to apply construction drawing standards and conventions to produce sketches and professional working drawings. This course also provides learners with the opportunity to further develop their knowledge of key skills subjects such as Mathematics, Science, English, Maltese, Information Technology.

Overall Learning Outcomes

1. Understand the importance of health, safety and welfare in the construction industry;
2. Understand the diversity of the construction industry and the contribution to society by those who work within it;
3. Apply construction drawing standards and conventions;
4. Describe the methods and techniques associated with pre-construction, ground works, substructure, superstructure and building services systems of low-rise domestic buildings.

Course Title : Advanced Diploma in Masonry Heritage Skills (Mastru)
Modality : 4.5
Delivered at : MCAST Malta Campus only

Course Objective:

This course of study gives learners the necessary knowledge and skills in the area of stone restoration and conservation. It offers learners the competences they will need in order to be able to analyse and generate solutions concerning typical restoration interventions. The practical training is carried out in College-based workshops and laboratories as well as on heritage sites. Throughout the programme learners will have the unique opportunity to work on historical heritage sites and structures to master maintenance, protection and preservation skills, and apply cleaning and testing techniques. Applicants have to be able to work within the industries concerned.

Overall Learning Outcomes

1. Carry out a risk assessment of the surrounding working environment before and after executing an assigned task;
2. Use basic tools on surfaces to stabilise, preserve and restore historic buildings;
3. Prepare written specifications/drawings and evaluation reports for work to be carried out on historic structures;
4. Identify historic building materials and the main types of materials currently in use.

Course Title : Advanced Diploma in Construction Engineering
Modality : 4.5
Delivered at : MCAST Malta Campus only

Course Objective:

This course comprises both College-based training and work-based learning. It gives an in-depth knowledge and experience of the general requirements and specialist areas related to the field of building and construction. At the end of the first year, learners can choose one of four streams that include: Construction Design, Quantity Surveying, Land Surveying, and Civil and Road Engineering. Learners will be able to carry out duties at a professional and technical level in areas such as building, construction, civil and roads engineering. They will be able to carry out tasks related to Design, Quantity Surveying, Land Surveying, Geospatial Engineering, Geographical Information, and Roads and Project Management. This course includes work-related training and practice.

Overall Learning Outcomes

1. Explain the responsibilities of employers and employees under current health, safety and welfare legislation;
2. Identify main equipment, media and techniques used in the production of drawings to detail building/construction techniques and processes;
3. Calculate final quantities from dimensions and descriptions of construction and civil engineering works;
4. Interpret and evaluate building techniques including surveying and setting out of small engineering projects.

Course Title : Advanced Diploma in Marine Engineering
Modality : 4.5
Delivered at : MCAST Malta Campus only

Course Objective:

This programme is the first step for those who wish to embark on a career in the maritime sector, with opportunities being available both locally and internationally. The course introduces the basics of engineering related to marine vessels and is ideal for those who wish to be introduced into this sector and obtain a formal vocational qualification. After successful completion of the course, the learner will have formed sound theoretical and practical competences. This course includes work-related training and practice.

Overall Learning Outcomes

1. Be familiar with relevant Shipping Industry Regulations and Legislation and Standards
2. Identify elements of marine engineering plant
3. Understand the application of mechanical engineering theory in a marine engineering environment
4. Follow operations and maintenance procedures as applicable to marine engineering.

Section 3.5 : Institute of Information and Communication Technology

Course Title : Advanced Diploma in IT (Computer Systems and Networks)
Modality : 4.1
Delivered at : MCAST Malta Campus only

Course Objective:

The Advanced Diploma in Computer Systems and Networks offers a diversity of units with innovative learning material and labs. The course provides ample hands-on experience to engage learners in acquiring practical skills and knowledge to assist them with establishing a career within the IT field. The duration of this programme is spread over two years the first entailing units are common to all IT streams. The intent is to ensure that learners broaden their knowledge beyond the central area of study. Lastly, the second focuses on the core aspects of routing, switching, infrastructure design principles and virtualisation techniques to implement and manage a small to a medium-sized enterprise network environment. Finally, work-based learning is also delivered utilising apprenticeship schemes to ensure that learners are adequately prepared and competent for the industry. This essentially empowers them and allows them to apply their skills in real-life environments and obtain knowledge to aid them in their studies.

Overall Learning Outcomes

1. Identify the ideal infrastructure components for a given requirement.
2. Diagnose and solve problems in an existing computer network.
3. Deploy and manage virtual infrastructure services.
4. Monitor and document network infrastructures.

Course Title : Advanced Diploma in IT (iGaming)
Modality : 4.1
Delivered at : MCAST Malta Campus only

Course Objective:

The Advanced Diploma in iGaming is the next level up from the diploma route, and provides hands-on experience to learners targeting junior roles in this innovative sector. It can also serve as a precursor to Software Development, iGaming, Digital Games or Business Analytics degrees. This two-year programme provides a balance of core software, web and mobile app/game development skills alongside advanced digital marketing, SEO, database design and implementation, advanced Mathematics, Data Analytics and Visualisation. The first year of this programme focuses on providing learners with core development skills whereas the second year provides further specialisation and puts the core skills to good use through work-based learning (subject to eligibility), real-world implementations and projects. Upon completion of this programme, skilled individuals targeting this sector will be in a position to build a comprehensive portfolio.
*Apprenticeship is subject to iGaming legal requirements. Please note that applicants who are not yet 18 years of age can still apply for the course and will be doing a replacement unit.

Overall Learning Outcomes

1. Identify the appropriate software infrastructure for given requirements;
2. Recognise the core design, mathematical and development concepts required to perform data analysis and convey it through software applications;
3. Design, plan and produce content that is compliant to organisational and legal standards;
4. Implement bespoke software applications that target a web / desktop and mobile platforms.

Course Title : Bachelor of Science (Honours) in Applied Data Sciences
Modality : 6.1
Delivered at : MCAST Malta Campus only

Course Objective:

The Degree in Applied Data Sciences is designed for individuals who are interested in utilising data to solve complex challenges in various fields. With a focus on applied methodology, analytical skills, and hands-on experience, students will learn how to use advanced analytical tools and techniques to uncover hidden trends and patterns that can lead to business success. The programme covers a range of topics related to software engineering, data organisation, and data analysis using the latest technologies in business intelligence, reporting, machine learning, and big data. In addition, the Degree includes a strong emphasis on text mining and natural language processing (NLP), which are key tools for extracting insights from unstructured data.
The programme also covers critical thinking skills, building strategies for promoting businesses, understanding consumer behaviour, computational linguistics and the laws governing business processes. A work-based component provides an opportunity for students to gain valuable industry experience and learn from real-world professionals. At the end of the programme, students will undertake a research component in the form of a dissertation. The Degree is ideal for individuals who are passionate about leveraging technology to drive business performance and make data-driven decisions.

Overall Learning Outcomes

1. Acquire knowledge and skills in various areas of information technology, business, and finance.
2. Evaluate and solve problems in a diverse range of data contexts.
3. Apply theoretical knowledge to real-world situations and develop practical solutions to address business and technological challenges.
4. Develop a strong ethical and professional foundation to be able to apply ethical principles and best practices to a variety of situations, including data governance, security, privacy, and social responsibility.

Course Title : Bachelor of Science (Honours) in Computer Systems and Networks
Modality : 6.1
Delivered at : MCAST Malta Campus only

Course Objective:

Computer systems and networks are a growth area in today's business environment due to the fact that there is a strong demand for highly skilled technical persons who can devise original solutions for complex problems in the context of IT and network implementation using modern techniques. This hands-on degree programme is intended for learners who wish to pursue a career in the world of computer systems and networks. In this course learners will be exposed to enterprise network technologies, data centre operations, service provider networks, information security, virtualisation, DevOps and cloud computing technologies. Due importance will also be given to emerging technologies which learners will find being implemented when they start working within the industry. A hands-on practical approach is adopted throughout the course.
This course does not entitle the successful candidates to apply for an engineering warrant with the Engineering Profession Board of Malta on successful completion of the course.

Overall Learning Outcomes

1. Understand key technologies and protocols used in enterprise systems and networks;
2. Design enterprise computer systems and networks according to a given specification;
3. Implement enterprise computer systems and networks according to a given specification;
4. Evaluate current and emerging network technologies.

Course Title : Bachelor of Science (Honours) in Software Development
Modality : 6.1
Delivered at : MCAST Malta Campus only

Course Objective:

The degree in Software Development is intended to prepare learners to work in the industry of application development and engineering and explores the skills required for designing IT enterprise solutions, building robust backend systems, and solving complex problems using the latest paradigms and modern technologies. The programme covers aspects related to software engineering, frontend and backend software technologies, data organisation, persistence and data analysis, software development of portable devices and software quality aspects such as security and testing. Modern trends such as Cloud, Devops, Blockchain, Machine Learning and Computer Vision are also explored. The degree includes work-placements that will allow students to gain experience within the industry and work in a professional environment. At the end of the degree, the students culminate their studies with a research dissertation in an area of their interest. The course is intended for individuals who are keen in solving problems through technology and would like to pursue an exciting career in one of the fundamental pillars of the economy.

Overall Learning Outcomes

1. Design, implement and document the underlying data infrastructure to support software applications;
2. Design, implement and document the back-end of enterprise applications for a given requirement;
3. Revise a software design/implementation to optimise its use of resources;
4. Test and secure the software application and its content to conform to industry standards.

Course Title : Bachelor of Science (Honours) in Creative Computing
Modality : 6.1
Delivered at : MCAST Malta Campus only

Course Objective:

The degree in Creative Computing is tailored for learners who are passionate about developing cutting-edge, interactive software applications across a wide range of platforms.
The comprehensive taught component covers a diverse array of skills, including front-end, UX/UI design principles, full-stack, cross-platform, and mobile app development. Learners will gain expertise in client-side and server-side technologies, as well as other areas like software development, audio/visual content creation, data organisation and persistence, machine learning, computer vision, web optimisation, utilisation of third-party tooling/libraries, and research methodologies.
The work-based component of the programme provides invaluable, hands-on experience on real-world projects within an organisation. Finally, the research component in the form of a dissertation will give prospective graduates the opportunity to identify, investigate, and devise solutions for complex problems in their chosen field. The Creative Computing Degree programme is designed to help individuals excel in various fields and stay ahead of the curve and in line with front-end, full-stack, cross-platform and mobile apps development.

Overall Learning Outcomes

1. Recognise the theoretical and conceptual underpinnings of Design.
2. Apply the acquired knowledge in real-world prototypes.
3. Produce a solid Portfolio that is relevant to Front-End / Full-Stack / Mobile Apps development companies.
4. Carry out work-based learning within the local ICT Industry.

Course Title : Bachelor of Science (Honours) in Digital Games Development
Modality : 6.1
Delivered at : MCAST Malta Campus only

Course Objective:

The degree in Digital Games Development offers learners the extra edge when it comes to the creation of entertainment software. The taught component provides insight on the various stages involved in game design and development. Students will learn to utilise state of the art tools and technologies for implementing digital games. Such artefacts require a variety of skills alongside 3D game engines. These skills include UX/UI design, game level design, software development, software testing, content creation (through audio/visual tools), 3D modelling, networking, game logic, AI, mathematics, physics, etc. Additionally, work placements will not only allow learners to understand the roles and responsibilities in an organisation. They will work on real-world problems and will understand the importance of decision-making, problem solving, whilst being effective team players. Finally, through the research component, students will explore how to investigate, resolve, and present findings related to a research problem in a given domain. There is also a "double Degree route" for those aspiring game developers who would like to extend their studies and work experience abroad, and take their existing qualification in Digital Games Development, Multimedia Software Development, or Software Development to the next level.

Overall Learning Outcomes

1. Recognise the underpinnings of Game Design.
2. Apply the acquired knowledge in real-world prototypes.
3. Produce a solid Portfolio that is relevant to Digital Games companies.
4. Carry out work-based learning locally.

Course Title : Bachelor of Science (Honours) in Cybersecurity
Modality : 6.1
Delivered at : MCAST Malta Campus only

Course Objective:

The Cybersecurity Degree is a 3-year programme that provides students with a comprehensive understanding of concepts, techniques, and tools required to secure software applications, computer systems and networks. Students will increase their proficiency in the usage of open source operating systems, network security, database programming, digital forensics, and offensive security. They will also develop practical skills in mitigating cyber threats.

The programme includes work-based component, whereby one's own skills are put to good use by working alongside experienced cybersecurity professionals. Additionally, the programme has a research component, whereby the student would undertake a dissertation. This applied research will draw on the skills and knowledge gained throughout the course to explore a specific area of cybersecurity in depth.

Graduates of this programme will gain sufficient hands-on experience to thrive in the dynamic field of cybersecurity. The expertise acquired will enable them to pursue careers in the cybersecurity sector, including roles such as cybersecurity specialists, information security analysts, network security engineers, penetration testers, and digital forensic experts alongside others.

Overall Learning Outcomes

1. Identify fundamental concepts and principles of computer platforms, networking and security.
2. Apply critical thinking and problem-solving skills to design, implement and secure computer systems, databases and networks.
3. Evaluate digital evidence, and apply forensic techniques to investigate breaches in a context of security.
4. Communicate ethical and professional behaviour in the domain of cybersecurity.

Section 4 : List of Apprenticeship Programmes delivered at the MCAST Institute of Creative Arts Mosta Campus

Course Title : Advanced Diploma in Cultural Heritage Skills
Modality : 4.9
Delivered at : MCAST Malta Campus only

Course Objective:

This course addresses needs in the cultural heritage sector in order to support the management, conservation, preservation and care of such heritage. Successful candidates will be able to ethically collaborate with relevant stakeholders, and would work under the supervision of a heritage professional. The programme of studies provides the necessary applied theoretical material and ethical background in technical aspects of cultural heritage and heritage skills, including: stone, wood, metals, books, paper and textiles heritage skills, with training being carried out in workshops, laboratories and on site. The course also has an apprenticeship, which allows learners the opportunity to work alongside professionals and immerse themselves in the world of cultural heritage while receiving the necessary training in a learning environment. Graduates of this programme can access the Bachelor in Conservation and Restoration Studies (Hons) course at the same Institute.

Overall Learning Outcomes

1. Demonstrate theoretical knowledge and understanding in various fields of cultural heritage and the ethics of its management, conservation, preservation and care;
2. Build on educational foundations to pursue further studies and training in the field;
3. Demonstrate cognitive and practical skills essential to the basic management, preservation and care of cultural heritage resources;
4. Apply technical and/or craft-based skills to support cultural heritage professionals;
5. Integrate within a team entrusted with the management, conservation, preservation and care of cultural heritage with awareness of personal competencies;
6. Understand the ethical and legal obligations of working in the field of cultural heritage as well as the limitations permitted at law.

Course Title : Advanced Diploma in Fashion and Retail
Modality : 4.6
Delivered at : MCAST Malta Campus only

Course Objective:

This course is designed to address the skills shortages in the fashion design and production sector. Learners will acquire important skills required for the fashion retail sector, together with basic entrepreneurial knowledge to support those learners who would like to set up their own atelier in the future. The first year of the programme offers learners the cultural, theoretical and creative aspects of the subject. Another important area is pattern drafting and sewing techniques, in preparation for the second year. The second year of studies provides learners with the opportunity to develop further their knowledge and skills in the specialisation. They will follow an apprenticeship as well as present their own design concepts in a fashion collection as their final major project.

Overall Learning Outcomes

1. Generate designs using the elements and principles whilst following the design process.
2. Provide an understanding of the commercial side of the fashion industry.
3. Demonstrate understanding when selecting materials, technique and equipment for a body of work.
4. Demonstrate design and manufacturing skills that have reached exhibiting standard.

Course Title : Bachelor in Conservation (Honours)
Modality : 6.4
Delivered at : MCAST Malta Campus only

Course Objective:

This full-time undergraduate course in conservation-restoration studies provides the learner with the opportunity to obtain the fundamental knowledge, skills and competences in conservation-restoration in a particular area of studies on offer. After an initial common year, learners then have the possibility to focus on a specific area. During the three years, which include practice-led formation and internships, the learner appreciates the complex nature of conservation-restoration as an interdisciplinary endeavour in which the conservation-restoration graduate collaborates with other members of a multidisciplinary team under the supervision of a warranted conservator restorer, for the benefit of the heritage. Through the final-year dissertation project of choice the learner has the opportunity to delve into further detail within the area of focus.
Learners who successfully complete this programme may enrol in the MCAST Master in Conservation, in partial fulfilment of the requirements to qualify for a warrant to practice according to the Cultural Heritage Act (CAP. 445) of the Laws of Malta.

Overall Learning Outcomes

1. Outline the Conservation-Restoration actions based on the examination and diagnosis of the cultural heritage and assessment of its needs under the supervision of a warranted Conservator-Restorer.
2. Identify the necessary Conservation-Restoration actions according to the required legal, logistical and operational standards under the supervision of a warranted Conservator-Restorer.
3. Apply the Conservation-Restoration actions established by a warranted Conservator-Restorer under the supervision and direction of such professional.
4. Relate the result of the Conservation-Restoration actions, outlining advice and recommendations for care and possible future actions based on the direction of a warranted Conservator-Restorer.

Course Title : Bachelor of Arts (Honours) in Fashion
Modality : 6.3
Delivered at : MCAST Malta Campus only

Course Objective:

The Fashion industry is continuously evolving, and this degree programme aims to address the requirements in the various specialisations within the industry. The programme focuses on various spectrums such as fashion/costume design and production, as well as retail and marketing. Learners are supported by contextual studies to understand how fashion designers inspire their creativity. The degree programme provides learners with the specialist skills to create patterns using traditional techniques, as well as modern software (CAD/CAM) within fashion production processes, on small and mass production scales. Moreover, the programme offers specialist units addressing retail and marketing content. The programme targets new, evolving digital technologies for individuals who wish to set up their own firm with the required entrepreneurial skills, as well as those who wish to progress in the fashion business.

Overall Learning Outcomes

1. Identify the requirements of the fashion industry, including retail and production.
2. Practice the production process from designing, to finishing actual fashion collections.
3. Identify the role of good customer service, fashion marketing and merchandising.
4. Prepare to be competent in the creative industry of fashion.

Section 5 : List of Apprenticeship Programmes delivered at the MCAST Gozo Campus

Course Title : Diploma in Electrical Installations
Modality : 3.1
Delivered at : MCAST Gozo Campus Only

Course Objective:

This programme serves as an initial step for those who are interested in pursuing a career in electrical systems, such as that of an Electrician within the construction industry. This course is designed to provide basic theory and practice related to electrical installations, that are then enhanced through the work-based learning. The course consists of both key skill units and vocational units, of which mostly are carried out in the workshops and laboratories. This course provides a good foundation for future career opportunities in engineering and may also serve for progression to level 4 engineering courses.

Overall Learning Outcomes

1. Interpret and follow safety requirements in compliance with the law for electrical installations in construction environments.
2. Interpret wiring regulations and requirements for domestic electrical installations.
3. Design and implement domestic electrical installations to given requirements.
4. Troubleshoot and repair existing single-phase electrical installations.
5. Explain different ways in which electrical devices operate, and the science behind them.

Course Title : Diploma in Hairdressing
Modality : 3.2
Delivered at : MCAST Gozo Campus Only

Course Objective:

This programme of studies leads to a career in the hairdressing industry. This course allows learners to acquire skills which are relevant to succeed and be competitive in the hairdressing industry. Alternatively, learners may wish to consider furthering their studies by progressing to the Level 4 Advanced Diploma programme in Hairdressing Learners cover a variety of study units such as client consultation, hair cutting and styling for different occasions, hair colouring, perming and straightening. The course includes experience in the College's salon as well as placements in industry as part of the Apprenticeship scheme. Other modules relate to health and safety practices in the salon and science of hairdressing Learners will also further their skills and competencies. Learners are required to purchase the necessary hairdressing accessories at the beginning of the academic year.

Overall Learning Outcomes

1. Perform hair salon duties safely and effectively.
2. Carry out consultation with the client.
3. Recognise hair, skin and scalp structure of the client.
4. Develop and apply creativity in hairdressing.

Course Title : Advanced Diploma in Accounting
Modality : 4.1
Delivered at : MCAST Gozo Campus Only

Course Objective:

This programme aims to give learners a very good grounding in the studying of Accounts. Study areas range from aspects of financial management accounting to the use of accounting software and more generic areas of key skills. The course includes hands-on experience through Apprenticeship where students will learn by doing and gain experience first-hand on the application of the theory. Students who finish the course will have sufficient accounting knowledge and skills to commence employment in an accountancy field, or to enable them to further their studies to obtain qualifications from recognised chartered accountancy bodies.

Overall Learning Outcomes

1. Recognise the nature and role of accounting in the business context;
2. Apply accounting concepts, other regulatory frameworks and legislations to prepare financial statements of various types of organisations;
3. Develop analytical and evaluation skills to understand, evaluate and communicate financial information to various business stakeholders;
4. Apply accounting knowledge and skills to be considered suitable for positions in the accounting field.

Course Title : Advanced Diploma in Finance and Insurance
Modality : 4.1
Delivered at : MCAST Gozo Campus Only

Course Objective:

This course is aimed at people who would like to venture in one of the many careers related to financial services. The first year of studies introduces learners to generic areas of financial services including the world of insurance. In the second year of studies, learners will then choose an area of specialisation. Specialisation can be either in financial services or else in insurance. This approach ensures that any learner following this course is exposed to different areas of the financial services world, thus giving them better flexibility in career prospects. Learners choosing the main area of expertise will be very strong in the specific area chosen, while having a good understanding of the other area.

NOTE:
Students taking this course at the Gozo Campus can only pursue the Financial Services specialisation stream in the second year of the course. Students opting for the Insurance Studies stream will need to continue their studies at the MCAST Main Campus in Paola.

Overall Learning Outcomes

1. Understand the nature of the insurance or financial market, their structure and main features according to chosen area.
2. Apply literacy, numeracy and soft skills which are considered as a necessity to be an effective team player within a Financial and Insurance Services Organisation.
3. Understand the need for the value of effective customer services within these sectors.
4. Understand the ways in which regulation and legislation impact on and are relevant to an organization and the financial services and Insurance industry in general.

Course Title : Advanced Diploma in Electrical Systems
Modality : 4.8
Delivered at : MCAST Gozo Campus Only

Course Objective:

This course is intended for learners who wish to embark on a career as technicians in electrical power systems in both the domestic and the industrial sectors. The course includes the requirements set by the Regulator for Energy and Water Services (REWS) for the Electrical Wireman's Authorisation A and Authorisation B. This ensures a solid technical competence and understanding of the regulations and health and safety requirements governing the electrical installation industry. This course contains modules related to Photovoltaic Systems, Building Services Engineering and Electronic Control Systems that give candidates a solid grounding in the engineering involved in the building services industry. Candidates will also receive exposure to Mechanical Workshop practice.

Overall Learning Outcomes

1. Work safely, communicate effectively in a team and take responsibility of work in an engineering context
2. Understand domestic and industrial electrical principles to apply them in real electrical installation situations
3. Design, perform and test domestic and electrical installations and machinery according to regulations and requirements
4. Troubleshoot, repair and modify existing domestic and industrial electrical installations, motors and switchgear.

Course Title : Advanced Diploma in IT (Computer Systems and Networks)
Modality : 4.1
Delivered at : MCAST Gozo Campus Only

Course Objective:

The Advanced Diploma in Computer Systems and Networks offers a diversity of units with innovative learning material and labs. The course provides ample hands-on experience to engage learners in acquiring practical skills and knowledge to assist them with establishing a career within the IT field. The duration of this programme is spread over two years the first entailing units are common to all IT streams. The intent is to ensure that learners broaden their knowledge beyond the central area of study. Lastly, the second focuses on the core aspects of routing, switching, infrastructure design principles and virtualisation techniques to implement and manage a small to a medium-sized enterprise network environment. Finally, work-based learning is also delivered utilising apprenticeship schemes to ensure that learners are adequately prepared and competent for the industry. This essentially empowers them and allows them to apply their skills in real-life environments and obtain knowledge to aid them in their studies.

Overall Learning Outcomes

1. Identify the ideal infrastructure components for a given requirement.
2. Diagnose and solve problems in an existing computer network.
3. Deploy and manage virtual infrastructure services.
4. Monitor and document network infrastructures.

Section 6 : Apprenticeship Attendance Modalities – A flexible approach for apprenticeship attendance

Every full-time prorgamme on apprentciship is assigned an apprentcihsip attendance modality. The attendance modality describes the attendance pattern by the apprentice horugh the the apprenctiahip period.

The attendance modalities are summarized in Annex 1 (next page).

Using Modality 4.1 as an example of an apprenticeship attendanc modality:

Modality 4.1 (refer to Annex 1) is the apprenticeship attendance modality assigned to an MQF Level 4 Advanced Diploma full-time apprenticeship programme of two (2) years duration.

As can be seen in Annex 1, the Apprentice attends the Employer's workplace for a total of 135 days (worked out at 8 hours per day, equivalent to 1,080 hours) of apprenticeship exclusive of pro-rate leave and sick leave entitlement.

As can also be seen from Annex 1, **Modality 4.1** allows the Apprentice to attend at the Employer's workplace on a 1-day release, starting the apprenticeship on 17th February 2025 and with the last day being 26th June 2026, including attendance during Easter 2025, Christmas 2025, and Easter 2026 holidays.

The student's College timetable nominally allows for a 1-day release for apprenticeship attendance.

The apprentice is allowed to attend more than 1-day release subject to:

a) the Employer's approval, and
b) the Apprentice's availability.

Hence, in agreement with the Employer, the Apprentice can use other available weekdays (or mornings/afternoons) to fulfil the apprenticeship hours.

However, any hours worked in excess of the target hours (for example, 1,080 hrs for modality 4.1) and as specified in the Apprenticeship Training Agreement contract will need to be paid in full by the employer to the apprentice at the minimum wage rate (or more).

The College encourages its students to enter into a separate agreement for part-time hours with the Employer after finalizing their apprenticeship agreement.

IMPORTANT NOTE (Refer to Annex 1 – next page)

The number of 'present' days/hours (shown in Annex 1) that the student is requried to attend on apprenticeship EXCLUDES the pro-rata leave and sick leave entitlement.

The student is requried to attend 100% of the 'present' days/hours in order to fufil obligatons with the Employer and the College.

Annex 1 : MCAST WORK-BASED LEARNING FLEXIBLE APPRENTICESHIP MODALITIES (For new student intakes starting October 2024)

ANNEX 1 : MCAST WORK-BASED LEARNING FLEXIBLE APPRENTICESHIP MODALITIES (New student intakes starting October 2024)

(IMPORTANT NOTE : Total number of days/hours attendance on apprenticeship indicated below exclude pro-rata leave and sick leave)

Modality number	MQF Level / Duration / Programme	Attendance Modality	Apprenticeship period starts on	Apprenticeship period ends on	Academic year (2024/25)				Academic year (2025/26)					Academic year (2026/27)				Present days / hours (exclude pro-rata leave / sick leave)	
																		Days	Hrs
1.1	MQF Level 3 / 1-year duration - Standard	1-day release + all days Easter holidays, July and August during apprenticeship period.	17/02/2025	26/08/2025	Taught units	Apprenticeship period			Fall-back									60	477
1.2	MQF Level 3 / 1-year duration - Hairdressing (only)	1-day release + all days Easter and Christmas holidays, July and August during apprenticeship period.	18/11/2024	26/08/2025	Apprenticeship period				Fall-back									79	634
1.3	MQF Level 3 / 1-Year duration - Aircraft Structure and Repairs (only)	Daily from 1/4/25 to 15/9/25	01/04/2025	15/09/2025	Taught units	Apprenticeship period			Fall-back									104	834
3.4	MQF Level 3 / 2-year duration - Aircraft Maintenance (only)	2-day release + all days Easter and Christmas holidays, July, August and September during apprenticeship period.	17/02/2025	25/09/2026	Taught units	Apprenticeship period												220	1760
4.1	MQF Level 4 / 2-year duration - Standard	1-day release + all days Easter and Christmas holidays, July, August and September during apprenticeship period.	17/02/2025	26/06/2026	Taught units	Apprenticeship period				Fall-back								120	962
4.3	MQF Level 4 / 2-year duration - Hairdressing (only)	1-day release during apprenticeship period. All days during the Easter and Christmas holidays, July, August and September during the apprenticeship period.	18/11/2024	26/06/2026	Apprenticeship period					Fall-back								144	1154
4.5	MQF Level 4 / 3-year duration	2-day release + all days Easter and Christmas holidays, July, August and September during apprenticeship period.	01/07/2025	26/06/2026	Taught units	Apprenticeship period				Fall-back				Taught units	Fall-back			128	1026
4.6	MQF Level 4 / 2-year duration - Fashion and Retail (only)	1 day release + all days Christmas holidays, July, August and September during apprenticeship period.	01/07/2025	30/01/2026	Taught units	Apprenticeship period				Fall-back								76	606
4.7	MQF Level 4 / 2-year duration - Aircraft Maintenance (Avionics/Turbine engines) CAT B (only)	2-day release + all days Easter and Christmas holidays, July, August and September during apprenticeship period.	17/02/2025	21/08/2026	Taught units	Apprenticeship period					Fall-back							198	1582
4.8	MQF Level 4 / 3-year duration - Electrical Systems (EEWS regulated (only)	1-day release during academic period + 2-day release July, August and September during apprenticeship period.	01/07/2025	02/07/2027	Taught units					Apprenticeship period							Fall-back	120	962
4.9	MQF Level 4 / 2-year duration - Cultural Heritage Skills (only)	1-day release + all days during Easter and Christmas Holidays, July, August and September during apprenticeship period	01/07/2025	26/06/2026	Taught units	Apprenticeship period				Fall-back								99	791
6.1	MQF Level 6 / 3-year duration - Standard	1-day release + all days Easter + Christmas holidays, July, August and September during apprenticeship period.	17/02/2025	26/06/2026	Taught units	Apprenticeship period				Fall-back								120	962
6.3	MQF Level 6 / 3-year duration - Bachelor in Fashion (only)	Daily from 1/7/25 to 26-6/25.	01/07/2025	26/09/2025	Taught units	Apprenticeship period		Taught units	Fall-back									56	449
6.4	MQF Level 6 / 3-year duration - Bachelor in Conservation (only)	Daily from 1/7/25 to 26/9/25. 1-day release from 29/9/25 to 26/6/26.Daily from 30/6/26 to 25/9/26. 1-day release from 28/9/26 to 30/6/27. All days Christmas and Easter holidays.	01/07/2025	30/06/2027	Taught units	Apprenticeship period												188	1503

Annex 2: Samples of the apprenticeship job description to be submitted to MCAST by the Apprenticeship Partner

Samples of the Job Description to be provided by the Employer when submitting an Apprenticeship Vacancy to be provided by the Employer (when uploading vacancies via https://mcastlimesurvey.westeurope.cloudapp.azure.com/387735?lang=en)

Sample 1

The Apprenticeship will be as part of the Quality Management Systems Department. The main responsibilities are:

- Conducting, reporting and following up on GMP audits. GMP audits are carried out in the brewery; and the packaging lines.
- Dealing with customer complaints, investigating complaints, internal reporting
- Support the department during external audits
- Pest Control audits, reporting and follow-ups
- Document maintenance on the company document control system
- Supplier evaluation and approval
- Equipment calibration
- Finished product inspections if/when required
- Product / raw material traceability studies if/when required.

Sample 2

The Company is looking for a passionate software developer apprentice with knowledge in databases who loves technology and gets energy from creating amazing real-world solutions based on Industry 4.0 and Industrial IoT.

What do we offer?

- Chance to work with a highly intelligent and passionate team of engineers and experts.
- Opportunities for professional development and training.
- A flexible working environment & schedule.
- Career opportunities in a growing business.

Sample 3

Our company has been connecting customers to opportunities. Our network covers established and emerging markets. We serve customers ranging from individuals, families and start-ups, to medium-size companies, major international businesses and governments.
We offer the Apprentice the opportunity to develop a fulfilling career within a supportive and inclusive environment. We aim to be a place where everyone can achieve their full potential.
We shall be offering a paid salary, above the Apprenticeship remuneration, and we have multiple vacancies across different areas.

Annex 3: General Notes re MCAST Apprenticeship Programmes

1. The MCAST revised apprenticeship attendance modalities (launched in October 2022) provide a **flexible baseline (**for both the Employer and the Apprentice) **that can be customised by sector. Employers are encouraged to contact the MCAST Apprenticeship Department to discuss different apprenticeship (attendance) modalities.**
2. Apprentices are required to **attend 100%** of the assigned apprenticeship hours to achieve the assigned work-based unit (apprenticeship) credits, if necessary, by attending any balance of missing days in the fallback periods, in agreement with the Employer and the MCAST Apprenticeship Department.
3. Timetables for all programmes that include a WBL apprenticeship component shall nominally allow for **1-day release** throughout the College semesters and block release during Easter, Christmas and summer holidays.
4. Apprentices are not obliged to attend apprenticeship hours beyond the amount established in the 'MCAST Apprenticeship Training Agreement' that is signed by the Employer, Student and MCAST.
5. MCAST encourages employers to **offer and extend part-time employment** to students beyond the mandatory apprenticeship period. Beyond the mandatory period, the Employer must guarantee (as a minimum) the minimum wage to the students.

MCAST has published an '**MCAST Apprenticeship Guidebook for Employers'** (November 2023). This guidebook is meant to help Industry Partners who are considering to onboard an apprentice(s) as well as companies who are already employing MCAST apprentices. The guidebook has four main sections.

Section 1: Deciding to Employ an MCAST Apprentice

This section provides a general overview of how to identify the need for an apprentice and how to reach out to MCAST.

Section 2: Ensuring a Profitable Apprenticeship Experience

This section provides suggestions on how the Industry Partner can achieve maximum return on its investment from onboarding an apprentice(s) while at the same time ensuring that each student gains the experience they require for their training.

Section 3: Effective Introduction of the Apprentices at Your Work Place.

This section outlines how to implement an effective apprenticeship onboarding process.

Section 4: Assisting Apprentices in Learning to Work - Effective Mentoring

This section provides tips on how to structure the mentoring process to encourage a long-term partnership between the Industry Partner and its apprentices.

Annex 4: Payment Rates for 2025 (Inclusive of Cola Adjustment according to Budget provisions)

The APPRENTICE is entitled to at least the National Statutory Minimum Wage rate per hour for the hours spent at the workplace as stipulated in the training programme plan. The minimum wage rate for 2025 is €5.54/hour.

The SPONSOR shall compensate the APPRENTICE at least at the following rates per hour:

€1.43/hour – 1st year of the course of studies

€1.50/hour – 2nd year of the course of studies

€2.12/hour – 3rd year of the course of studies

The rates above are revisable every calendar year by a pro-rata yearly COLA increase.

In addition to the payment as stipulated above (and irrespective of student's eligibility for students' maintenance grants and the amount thereof), the APPRENTICE is also entitled to the payment of Top Up stipend. This amount when added up to the employer contribution make up the established minimum wage rate per hour.

Applicable top-up rates payable from the Government of Malta are:

€4.11/hour - 1st year of the course of studies

€4.04/hour – 2nd year of the course of studies

€3.42/hour – 3rd year of the course of studies

The Top up payment rates above are revisable every calendar year by a pro-rata yearly COLA increase.

These payment terms are NOT applicable to students who are in full time employment / sponsorship. These students are deemed NOT eligible for top up stipend but shall continue to receive payment as per terms of the full time contract / sponsorship from EMPLOYER / SPONSOR.

Annex 5: MQF Levels – Explanation

The Malta Qualifications. Framework (MQF) assists in making the Maltese qualifications system easier to understand and more transparent at a national and international level. It consists of 10 different levels, Levels 1 to 8 and Introductory Levels A and B.

- An **MQF Level 3** qualification is an entry point to the next level, MQF Level 4 qualification.
- **An MQF Level 4** qualification is pegged at MATSEC A level standard. This qualification level is typically required to start a bachelor-level program.
- **An MQF Level 6** is equivalent to a Bachelor's Degree or an Undergraduate Degree.

MCAST offers apprenticeship programmes at MQF Levels 3, 4 and 6 (Refer to Annex 1 for further details of attendance modalities for the different MQF Levels)

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