

## MCAST PROGRAMMES - PUBLIC INFORMATION TEMPLATE (FULL TIME)

<b>Institute</b>	Institute of Engineering and Transport
<b>Department</b>	Aviation, Transportation and Logistics Department incl. Aircraft Maintenance Training Centre

Programme Title	Higher Diploma in Transportation, Logistics and Supply Chain Management				
Course Code <i>To be filled in by Admissions Dept.</i>	AE5-O14-24		If the programme includes a WBL element, How is it accredited?		Not Applicable, does not include WBL
MQF/ EQF Level	Level 5	Type <i>(refer to Appendix 1 for Parameters)</i>	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 <i>(Academic Years or Semesters)</i>	2 Years	Mode of Attendance	Full-time
Total Number of Credits	120 credits	Total Learning Hours <i>(25 Total Learning Hours for each ECTS)</i>		3000 hours	
Target Audience	Ages 16 - 65	Target Group <i>(the type of learners that the educational institution anticipates joining this programme)</i>	-		
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 <a href="mailto:applyinternational@mcast.edu.mt">applyinternational@mcast.edu.mt</a>  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 <a href="http://servizz.gov.mt">servizz.gov.mt</a> website <a href="#">here</a>				
Date of Next Student Intake	For further information regarding upcoming student intake and applications time windows for same kindly <a href="#">click here</a>				
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.				

	<p>For more information about how to apply online for a course at MCAST, please visit: <a href="https://mcast.edu.mt/how-to-apply-online-2/">https://mcast.edu.mt/how-to-apply-online-2/</a></p>
<b>Information for Non-EU Citizens</b>	<p>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 <a href="https://www.identitymalta.com/unit/central-visa-unit/">https://www.identitymalta.com/unit/central-visa-unit/</a>.</p> <p>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 <a href="https://mcast.edu.mt/important-information/">https://mcast.edu.mt/important-information/</a></p>
<b>IMPORTANT note to Non-EU Nationals / TCNs</b>	<p>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:</p> <p><a href="https://mcast.edu.mt/important-information/">https://mcast.edu.mt/important-information/</a></p>
<b>Address where the Programme will be Delivered</b>	<p><i>MCAST has four campuses as follows:</i></p> <p><b>MCAST Main Campus</b> Triq Kordin, Paola, Malta</p> <p><i>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).</i></p> <p><i>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:</i></p> <p><b>Institute for the Creative Arts</b> Mosta Campus Misraħ Ġhonoq Tarġa Gap, Mosta</p> <p><b>Institute of Applied Sciences</b> Centre of Agriculture, Aquatics and Animal Sciences, Luqa Road, Qormi</p> <p><b>Gozo Campus</b> J.F. De Chambray Street MCAST, Ġhajnsielem Gozo</p> <p><i>In the case of courses delivered via Online Learning, students will be following the programme from their preferred location/address.</i></p> <p><i>Programmes delivered via Blended Learning, and which therefore contain both an online and a face to face component shall be delivered as follows:</i></p> <ul style="list-style-type: none"> <li>○ Face to Face components – as per above address instructions</li> <li>○ Online components – from the student's preferred address.</li> </ul>

<b>Course Description</b> <i>(Refer to Programme Specification)</i>	<p>The course is intended for candidates who wish to embark or progress on a career in the transportation and logistics management.</p> <p>The Students after this course will acquire the relevant advanced academic and vocational logistics operations principles and skills. This would be enhanced by an understanding of how transportation modes support the smooth flow of goods between entities operating within global supply chains.</p> <p>Finally, the learners will also be properly equipped to succeed in the numerous dynamic challenges in local and global industries.</p>
<b>Deskrizzjoni tal-Kors</b> <i>(Refer to Programme Specification)</i>	<p>Il-kors huwa maħsub għal kandidati li jixtiequ jimbarkaw jew jimxu 'l quddiem għal karriera fil-ġestjoni tat-trasport u l-loġistika.</p> <p>L-Istudenti wara dan il-kors se jakkwistaw il-prinċipji u l-ħiliet rilevanti tal-operat tal loġistika akkademiċi u vokazzjonali avvanzati. Dan ikun imsaħħaħ permezz ta' fehim ta' kif il-modi tat-trasport jappoġġaw il-fluss bla xkiel tal-merkanzija bejn l-entitajiet li joperaw fi ħdan il-ktajjen tal-provvista globali.</p> <p>Fl-aħħarnett, l-istudenti se jkunu wkoll mġhammra kif suppost biex jirnexxu fl-isfidi dinamiċi numerużi fl-industriji lokali u globali.</p>
<b>Career Opportunities:</b>	<p>Purchasing Agent, Logistics Analyst, Supply Chain Manager, Logistics Manager</p>
<b>Entry Requirements</b> <i>(Refer to Prospectus / Course Page on MCAST website)</i>	<p>Internal Progression Route...</p> <p>Any MCAST MQF Level 4 Advanced Diploma</p> <p>OR</p> <p>2 A-Level passes and 2 I-Level passes</p>
<b>Other Notes related to this Programme, and which are to be taken note of</b>	<p>-</p>
<b>Programme Learning Outcomes</b> <i>(Refer to Programme Specification)</i>	<p>At the end of the programme the learner is able to:</p> <ol style="list-style-type: none"> <li>1. Develop the necessary knowledge and skills to become technically competent and adaptable in the Transportation and Logistics discipline whilst embracing new technological advancement and challenges.</li> <li>2. Develop social skills, leadership qualities and willingness to be responsible towards developing the community and the economy.</li> <li>3. Solve and manage logistical challenges innovatively, creatively and ethically.</li> <li>4. Recognise the need of a lifelong learning philosophy for successful career advancement.</li> </ol>
<b>Teaching, Learning and Assessment Procedures</b>	<p>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.</p> <p>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').</p> <p>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.</p> <p>Students may however be required to provide consumable material for use during practical sessions and projects unless these are explicitly provided by the College.</p>



	<p>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.</p> <p>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.</p> <p>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.</p> <p>The distribution of marks and assessment mode depends on the nature and objectives of the unit in question.</p> <p>Coursework shall normally be completed during the semester in which the Unit is delivered.</p> <p>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.</p> <p>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 <a href="https://www.mcast.edu.mt/college-documents/">https://www.mcast.edu.mt/college-documents/</a></p> <p>The Programme Regulations pertaining to this Programme's MQF/EQF level available at: link <a href="https://www.mcast.edu.mt/college-documents/">https://www.mcast.edu.mt/college-documents/</a>, apply.</p>
<b>Grading System</b>	<p>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.</p> <p>For a student to be deemed to have successfully passed a unit, a minimum of 50% (grade D) must be achieved.</p> <p>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'.</p> <p>Work-based learning units (where applicable) are graded on a Pass/Fail basis only.</p> <p>Some units which follow industry standards and regulations may also be graded on a Pass/Fail basis as per programme regulations referred below.</p> <p>Detailed information regarding the grading system may be found in the Programme</p>



	Regulations pertaining to this programme's MQF/EQF Level available at: <a href="https://www.mcast.edu.mt/college-documents/">https://www.mcast.edu.mt/college-documents/</a> (Refer to DOC 003, 004 and 005)
<b>Exit Point (where and as applicable)</b>	Where a student will not make it to the Final Certification achievable 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 <a href="https://www.mcast.edu.mt/college-documents/">https://www.mcast.edu.mt/college-documents/</a> , kindly refer to <i>DOC 077 Procedure for the processing of Claims for Certificates at Interim Exit Points</i> .
<b>Contact details for Further Learning Opportunities</b>	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.  <b>MCAST Career Guidance</b> Tel: 2398 7135/6 Email: <a href="mailto:career.guidance@mcast.edu.mt">career.guidance@mcast.edu.mt</a>
<b>Regulatory Body/ Competent Authority Contact Details</b> <i>(where applicable - in the case of a programme leading to Regulated Profession)</i>	-

Programme Structure	Unit Code	Unit Title	ECTS	Year	Semester
	ETTLM-506-2201	Strategic Procurement Principles	6	1	-
	ETTLM-506-2202	Transportation Economics	6	1	-
	ETTLM-506-2203	Advanced Logistics and Supply Chain Management	6	1	-
	ETTLM-506-2204	Warehouse Management	6	1	-
	ETTLM-506-2205	Transportation Simulation Modelling	6	1	-
	ETTLM-506-2206	Dangerous/Special Goods Classification and Requirements	6	1	-
	ETTLM-506-2207	Supply Chain Project Management	6	1	-
	CDKSK-506-2110	Information Technology	6	1	-
	ETTLM-506-2208	Accounting and Finance for Logistics	6	1	-
	ETTLM-506-2209	GIS for Logistics	6	1	-
	ETTLM-506-2210	International Business	6	2	-
	CDKSK-503-2330	Critical Thinking 1	3	2	-
	ETTLM-506-	Transport Planning	6	2	-



	2211				
	ETTLM-506-2212	Advanced Marine Transportation	6	2	-
	ETTLM-506-2213	International Maritime Law	6	2	-
	ETTLM-506-2214	Road/Rail Freight Transport and regulatory framework	6	2	-
	ETTLM-506-2215	Fleet Management	6	2	-
	ETTLM-506-2216	Advanced Air Transport Industry	6	2	-
	ETTLM-506-2217	Regulatory Policy and Air Law	6	2	-
	CDKSK-503-2331	Critical Thinking 2	3	2	-
	ETTLM-506-2218	Transportation Project	6	2	-

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 <sup>1</sup>	Self-Learning and Assessment Hours <sup>3</sup>	Total Student workload (hrs) <sup>2</sup>
	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 <sup>3</sup> ' amount to the difference between the 'Indicative Contact Hours <sup>1</sup> ' and the 'Total Student Workload <sup>2</sup> '				

## 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, 5<sup>th</sup> 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, 5<sup>th</sup> Revised Edition.



## ETTLM-506-2201: Strategic Procurement Principles

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Blended

Total Learning Hours: 150

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### Unit Description

This course focuses on Risk Management with regards to procurement, suppliers, and how to mitigate those risks through various methods of negotiation, strategy, and portfolio management.

Following a brief recap of Purchasing Organizational Structure and Global Sourcing, the learner will delve right into Risk management and learn about The Risk Management Process, ways to safeguard a company against Supplier Risks, and how to mitigate risks once they present themselves into the Supply Chain.

Next, the learner will focus on methods and tools for everyday purchasing including Market research, Value Analysis, ABC Analysis, Portfolio Technique, and Price Structure Analysis.

The Learner will then focus on the Negotiation that includes preparation, the stages and methods of Negotiation, and evaluating success or failure of a negotiation. Here, Karass Negotiation will certainly supplement, as it is one of the leading methods for professionals within sales and business in general.

Finally the learner will focus on Personnel Development within purchasing and e Procurement, topics include the requirements for the Modern Buyer, Purchasing as a Managerial function, and the basics of e-procurement and e-ordering.

### Learning Outcomes

On completion of this unit the learner will be able to

1. *Discuss Risk Management and safeguarding against risk.*
2. *Apply learned methods and tools for everyday Strategic Purchasing Management.*
3. *Exhibit the various methods of negotiation and relevant stages and preparations required to be successful.*
4. *Engage in requirements for the Modern Buyer and Modern Purchasing Manager.*

## **ETTLM-506-2202: Transportation Economics**

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Blended

Total Learning Hours: 150

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### **Unit Description**

Public Transport is a collection of various modes of transportation accessible to the general public, usually on routes via air, sea, ground, and rail, including trams, bus rapid transport, light rapid transport, and High Speed Rail. A unique aspect of Public Transport is the integration of Policymaking from Government, implementation from Private business, and fleet management through private and sometimes Government. New forms of ride sharing like Uber, Bolt, Lyft and others, are helping to shape new policy, routes and ways for the public to transport goods and people from origin to destination.

The learner will begin this unit learning about regulatory frameworks in public transport and transport governance followed by mobility as a Service (MaaS) as well as intercity modal competition, where essentially various modes of transport are in direct competition to gain more passengers and goods. Following this, the learner will understand Public transport integration, intermodal connections and public transport concerning the environment.

The learner will then engage in Land Value gains and financing of public transport infrastructure, evaluation of Public Transport and Public transport productivity and efficiency assessment. The learner will also be exposed to each mode beginning with bus, rail, air passenger services, sustainable urban ferry services and taxis.

The learner will then discover insights into health impacts of public transport, demand estimation for network planning, first and last mile connection, public transport and the built environment and intelligent mobility and big data for planning, trust and privacy. Focus will then be placed on public transport delivery issues including provision of service information, social inclusion, intermodal strategies combining cycling and public transport to improve service and acceptability and general network planning and design.

Smart card data will engage the learner into the various uses, analytics, and platforms and how they are being used today to improve efficiency within the transport networks. Finally, the learner will encounter the future of public transport through learning how automated vehicles of present and future will change the economics around transport.

## Learning Outcomes

On completion of this unit the learner will be able to

1. *Apply public transport governance, transport integration and public transport financing and evaluation to real world examples.*
2. *Advise the various modes of transport involved in demand estimation of public transport and network planning including first/last mile, trip and mobility.*
3. *Engage different public transport delivery issues and solutions to the issues.*
4. *Advise how smart cards and public transport planning can create optimization within the various public transport networks.*
5. *Provide knowledge and examples of future trends in Public Transport regarding vehicles, technology, governance and future mobility.*

## **ETTLM-506-2203: Advanced Logistics and Supply Chain Management**

Unit level (MQF/EQF): 5  
Credits: 6  
Delivery Mode: Blended  
Total Learning Hours: 150

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### **Unit Description**

This unit is made up of fundamental and advanced concepts of logistics and supply chain networks that operate around the globe. The learner will be equipped with the rudiments of this crucial methodological and often complex network of logistical trade, movements, returns, reversals, and embargos. The evolutionary speed of I.T and complexities of logistics and customer requirements will be addressed in this unit to help in steering the learner towards the ambience of customer service, speed, shipping, aviation, and haulage coordination to deliver the optimum including the impacts that these may have on the systems and sub systems in modern marketing mechanisms.

This unit also provides an important aspect in advanced logistics and supply chain flows for the learner to attain, i.e., the international blend of physical distributions, trade agreements, backward and forward business, and the different aspects of external factors that affects the transportation of logistics in each node and the influences on the modus operandi of a network set of activities.

These scenarios will provide the learner enough knowledge that will increase his/her the ability to evaluate and analyze different trade agreements of different continents on the movement of primary, secondary, and tertiary activities. The learner will also benefit from a cogitation aspect in the sense that enough knowledge on decision making of practical scenarios will help in the rational decision making with a special emphasis on environmental, sustainability and customer care issues that this complex system requires.

## Learning Outcomes

On completion of this unit the learner will be able to

1. *Evaluate seminal and contemporary supply chain distribution networks including returns and reversal logistics.*
2. *Analyse the transportation systems that exist used by distribution channels.*
3. *Discuss the impacts of world/regional distributions disruptions from conflicts to pandemics and the challenges they offer now and in the future.*
4. *Apply logistical issues in various supply chain contexts.*

## ETTLM-506-2204: Warehouse Management

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Blended

Total Learning Hours: 150

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### Unit Description

This unit is designed to expand in this level on warehouse management that is a crucial element in logistics and supply chain *modus operandi*. The learner will acquire knowledge not only on storage equipment and handling environments, but also in managing, designing, and planning in contingency in the event of any type of disruption. The most common handling equipment is related of palletized and palletized cargo manually and automated systems with modern plant machinery. This unit will equip the student in utilizing the proper concepts in the day to day running of warehousing and storage management.

Another important aspect of this unit for the learner to understand the flow of movement in hubs and sub hubs and the security systems they entail in preserving the cargo allocation in an efficient replacement flow system.

### Learning Outcomes

On completion of this unit the learner will be able to

1. *Apply basic concepts and principles of warehousing and storage that supports logistics and supply chain operations.*
2. *Discuss the planning and design of a storage and handling system/s for efficient warehouse management.*
3. *Apply contemporary contingency measure in the event of a regional/continental/global disruption of warehouse operations.*
4. *Describe warehouse management and information systems that ameliorate efficiency.*

## ETTLM-506-2205: Transportation Simulation Modelling

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Blended

Total Learning Hours: 150

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### Unit Description

The unit Transportation Simulation Modelling will steer the learner into the complexities of transportation with the technology compliment that global competition aggressively requires. Simulation Modelling has become a crucial element in contemporary supply chains and is responsible for the evolutionary changes that brought in the cyber era. This unit spans on all the components that make up a supply chain today varying from planning and design, environment, congestive bottlenecks, network routing, performance, and optimization. Modelling and simulation is the most economical way of keeping abreast with market and consumer mechanisms by continuous research on what demands and supply are in the present, with a probabilistic research of the future may hold.

### Learning Outcomes

On completion of this unit the learner will be able to

1. *Review seminal and contemporary transportation history, classification, and research analyses on the evolution of the system.*
2. *Analyse the traffic flow theory to identified different nodes in transportation networks.*
3. *Analyse the control techniques of land, sea, and air transport systems including public transport systems.*
4. *Assess the impacts on transport systems and society in general including the relationship between logistics and transportation.*



## **ETTLM-506-2206: Dangerous/Special Goods Classification and Requirements**

Unit level (MQF/EQF): 5  
Credits: 6  
Delivery Mode: Blended  
Total Learning Hours: 150

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### **Unit Description**

This unit introduces learners to the important aspect of handling, transportation and storage of dangerous goods in transport and logistics operations. The learners will be introduced to the different categories, legislation and regulations of dangerous goods in relation to transport and logistics operations and logistics.

This unit will introduce learners to the different modes of transport of dangerous goods in transport and logistics. Learners will also be taught about the importance of safe storage and handling of dangerous goods relating to transport and logistics operations.

### **Learning Outcomes**

On completion of this unit the learner will be able to

- 1. Categorize different types of dangerous goods in transport and logistics operations.*
- 2. Discuss the legislation and regulations relating to dangerous goods in transport and logistics operations.*
- 3. Identify different modes of transport of dangerous goods in transport and logistics operations.*
- 4. Recognise the importance of safe storage and handling of dangerous goods in transport and logistics operations.*

## **ETTLM-506-2207: Supply Chain Project Management**

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Blended

Total Learning Hours: 150

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### **Unit Description**

Supply Chain Management continues to grow within an interconnected and globalized world. Shocks, like pandemics and war, cause supply chains to experience rises in costs, drops in availability and demand, and an ever-increasing need to grow, adapt, and stay in front of global challenges. In order to grow a scale a supply chain without causing shocks to suppliers and customers it is essential to incorporate a standardized process of project management.

This unit will guide learners towards the successful completion of a Project within Supply Chain Management. Supply Chain and Project Management are required for modern managers to develop and accomplish supply chain strategies that are sustainable and cost effective. Utilizing the principal source of knowledge regarding project management is the Project Management Institute and with it the Guide to the Project Management body of Knowledge known as PMBOK GUIDE. The aim is to introduce learners to research and develop their understanding and skills in both quantitative and qualitative research methods as well as report creation and presentation of findings. Learners will also be introduced to the PMI process of Project Management that includes Project Integration Management, Scope, Rime, cost and Quality Management mixed with HR, Communications, Risk, and Procurement Management. Learners will start with definition and drivers of supply chain management and proceed to learn about the five critical Supply chain management tasks - Foundation for SCM Knowledge. Following this, the learner will engage in Project Management, where the levels of project management maturity will be discussed along with project management standards, knowledge areas, and process standards. After this, the learner will be exposed to Supply chain executing processes, how to develop a supply chain strategy, implementing collaborative relationships, forging supply chain partnerships, and improving supply chain processes and systems.

## Learning Outcomes

On completion of this unit the learner will be able to

1. *Execute Supply Chain Management Foundational Concepts.*
2. *Establish the Project Management and Supply Chain Management Link.*
3. *Develop Supply Chain Management Project Processes.*
4. *Apply Project Management and Supply Chain Management to a Supply Chain Project.*

## **CDKSK-506-2110: Information Technology**

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Face to Face

Total Learning Hours: 150

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### **Unit Description**

The unit aims to give the learner advanced IT skills and the ability to use advanced IT tools in their day-to-day work, to analyse information and leverage other skills in real life and real work environments.

The unit builds on the IT Key Skills level 4 Unit and basic IT knowledge. Most of the outcomes within this unit require basic understanding of IT and it is highly recommended that learners are already practiced in IT. Furthermore, the outcomes within this unit can be used to support each other.

On successful completion of the unit, learners will possess skills to keep learning more IT skills online to achieve their work-related goals. They will also be able to use IT for a variety of advanced work-related tasks.

Amongst the outcomes of this unit, the learner will be able to use tools and online sources to accomplish tasks that require collaboration between people. Examples of such tasks include learning using a Virtual Learning Environment; uploading and/or sharing of material produced, such as screenshots or screencasts. The learner will also be able to participate in online discussions.

The learner will also be able to use a tool of choice to be able to store data using some form of database. The learner will later be able to retrieve that data for manipulation and analysis.

The learner will also be able to automate common and repetitive tasks using IT. This will be done using a scripting language. For example, this scripting may be done using macros or other scripting language related to the programs associated with the chosen task.

The last outcome will enable the learner to create an online presence that enables oneself to carry out some online activity with other people in an asynchronous manner. This may be achieved using social media or online publishing platforms.

## **Learning Outcomes**

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

- 1. Use IT tools to collaborate with others.*
- 2. Store, retrieve and manipulate data for analysis.*
- 3. Utilise IT tools and a scripting language to automate tasks.*
- 4. Create and maintain an interactive online presence by making use of one or more tools.*

## **ETTLM-506-2208: Accounting and Finance for Logistics**

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Face to Face

Total Learning Hours: 150

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### **Unit Description**

This unit introduces learners to accounting and finance for logistics. The learners will be introduced to management accounting and taught about the importance of distinguishing between different types of costs and cost behaviours, in relation to transport and logistics operations. This will help learners to recognize the importance of marginal costing and decision making in these operations. Learners will be introduced to the different types of budgets and variance analysis. This unit will help learners to understand the importance of the management of inventory in supply chain. Learners will be taught how to apply investment appraisal techniques to given scenarios relating to transport and logistics operations.

### **Learning Outcomes**

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

- 1. Recognise the role and purpose of management accounting in transport and logistics operations.*
- 2. Interpret the different types of costs and cost behaviour in relation to transport and logistics operations.*
- 3. Recognise the importance of Marginal Costing and Decision Making in transport and logistics operations.*
- 4. Prepare different types of Budgets & Variance Analysis in relation to transport and logistics.*
- 5. Appraise the importance of the management of inventory in supply chain.*
- 6. Apply Investment Appraisal techniques in transport and logistics operations.*

## **ETTLM-506-2209: GIS for Logistics**

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Face to Face

Total Learning Hours: 150

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### **Unit Description**

Transportation is, generally surmised, as the movement of goods from one place to another. As technology advances, there are dramatic improvements to speed and capacity of transport that dramatically increase economics at origin, intermodal locations, and destination. This brings about population shifts and subsequent requirements for infrastructures of all kinds. The speed that the paradigm has shifted leaves global routes mixed between old ways of working, and new and improved ways; one can see this where there is a brand new airport terminal but bridges and tunnels leading to and from the same airport are in bad shape. This unit serves to give the learner a perspective on how organizations, agencies, and companies, like departments of transportation, airports and port authorities, to name a few, plan, manage, and maintain the infrastructure that keeps people and goods moving efficiently. Managing transportation systems means also managing good business and customer relationships; to be able to prepare for and respond to incidents like inclement weather at an airport, or a power outage that affects an entire intermodal terminal.

Since every aspect of a transportation system is locational, it can be mapped and analyzed spatially. Transportation agencies use geographic information system technology (GIS) to help improve operational efficiency, safety and security, asset management, planning and sustainability. GIS also provides a stronger sense of location intelligence across organizations so that transport managers, engineers, planners, repair crews, and more, can develop a better understanding of where people and things are in relation to everything else.

GIS reveals unseen issues, vulnerabilities, and movement patterns that can help optimize transport systems and networks.

The unit is broken down into four distinct parts: (1) The first portion is Operational efficiency, which GIS provides a collaborative environment where sharing and using data is presented in a locational intelligent view; (2) The second part is safety and security. Moving people, goods and services across the globe brings issues of fraud and



risk, which requires rules and regulations to combat. GIS is well suited for strengthening safety and security measures to reduce risk within a complex environment of moving parts because it can give personnel real-time situation awareness and ability to coordinate resources; (3) The third part is asset management. With GIS, transportation agencies can create a comprehensive asset inventory that includes the precise locations of all assets.

In this section, a collection of stories shows how transportation agencies are using GIS to help maintenance crews and asset inspectors capture detailed information that automatically updates asset management systems, as well as document work, prioritize work orders, re-task crews based on their locations and proximity to other issues and assets, and move from reactive to predictive maintenance; (4) The final part is Planning and Sustainability.

Transportation agencies are concerned with the long-term sustainability and resiliency of the infrastructure and always trying to anticipate growth in business and the changing needs of customers. With GIS, transportation agencies get a unique geographic perspective on understanding current conditions and existing stresses on transportation systems. In this section, a collection of stories shows how transportation agencies are using GIS to plan changes to the transportation system while better understanding the needs of customers, patterns of economic development, and meeting state and federal requirements.

## **Learning Outcomes**

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

- 1. Apply operational efficiency across a transport system using GIS*
- 2. Utilize safety and security measures across a transport System using GIS*
- 3. Develop asset management across a transport system using GIS*
- 4. Employ planning and sustainability measures across a transport System using GIS*

## **ETTLM-506-2210: International Business**

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Face to Face

Total Learning Hours: 150

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### **Unit Description**

The "International Business" unit is designed for learners pursuing a higher diploma in Transport Engineering, providing an essential understanding of the global business landscape with a particular focus on Malta's role within the European Union (EU). Malta, as a Member State within the EU, operates within a unique intersection of European and global trade dynamics. This course explores the complexities of international trade, the regulatory frameworks governing business activities, the legal implications, trade agreements, and essential information required for successful international business operations. Through this course learners will gain an understanding on Global Supply Chain. The transport sector is integral to the global supply chain, which is inherently international. Understanding international business principles allows transport management professionals to effectively navigate and optimize the complex networks of suppliers, manufacturers, and distributors that span multiple countries. Transport management involves also adhering to various international regulations and standards. Knowledge of international business helps learners grasp the regulatory frameworks that govern cross border transport, including customs procedures, trade tariffs, and international trade agreements, ensuring compliance and reducing legal risks. A solid foundation in international business equips transport management professionals with the skills to identify and exploit global market opportunities. This knowledge can lead to the expansion of services into new regions, enhancing competitiveness and growth potential. In summary, integrating international business education into a diploma in Transport Management prepares learners to navigate the complexities of global logistics, enhances their strategic decision making capabilities, and equips them with the skills needed to lead in a globalized transport industry.

### **Learning Outcomes**

**Upon completing the unit, learners should be able to:**

- 1. Identify EU and International Trade Regulations.*
- 2. Assess the legal processes involved in cross-border transactions, dispute resolution mechanisms, and the role of international arbitration.*
- 3. Analyse the various international trade agreements, including bilateral, regional, and multilateral agreements.*
- 4. Implement sustainable business practices within Malta's international trade activities.*

## CDKSK-503-2330: Critical Thinking I

Unit level (MQF/EQF): 5

Credits: 3

Delivery Mode: Face to Face

Total Learning Hours: 75

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### Unit Description

Critical Thinking is the intellectual discipline of actively and skilfully conceptualising, applying, analysing, synthesising, and evaluating information gathered from, or generated by, observation, experience, reflection, reasoning, or communication as a guide to belief and action.

This unit equips learners with sought after skills essential to the vocational and academic life. Its main focus is on frameworks of reflective practice and ideology which are exemplified through the building of a critical readership by means of close-reading techniques and reflective writing. By integrating theories of reflective writing and the nature of evidence from sources of information, this unit equips learners with the means to read, interpret, reflect and write critically and reflectively.

The application of close-reading techniques and ideology is also addressed in this unit. Close reading is the careful, critical analysis of a text that focuses on significant details or patterns in order to develop a deep, precise understanding of the text. Ideology is also addressed, with particular focus on areas of practical research that lie at the confluence of social, political, and technological concerns.

The final aim behind Critical Thinking I is to facilitate a deep, transformative, and unique learning experience.

### Learning Outcomes

Upon completing the unit, learners should be able to:

1. *Identify the different reflective frameworks that can be used to enable critical reflection and thinking.*
2. *Apply the appropriate methodology to write in an analytic and reflective manner.*
3. *Apply close-reading techniques to secondary research.*
4. *Explain the importance of ideology in critical thinking.*

## **ETTLM-506-2211: Transport Planning**

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Face to Face

Total Learning Hours: 150

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### **Unit Description**

This unit examines the intricate and multifaceted domain of transport planning and policy, offering an in-depth examination of the critical elements that shape transportation systems and their impacts on society, the economy, and the environment. It is designed for participants aiming to deepen their understanding and develop specialized skills in planning sustainable, efficient, and equitable transportation systems. By providing a comprehensive education that merges theoretical frameworks, empirical research, and practical applications, the unit equips learners with both the technical expertise and the critical insight necessary for excellence in the field. The unit commences with an introduction to the fundamentals of transport planning, laying a solid foundation for understanding the complexities involved. This is followed by an exploration of transport modeling and simulation, where learners will learn to create and analyze models that predict transportation patterns and assess the implications of various transport strategies. Next, the unit delves into transport policy analysis, where participants will critically evaluate existing policies and explore the formulation of new policies aimed at addressing contemporary transportation challenges. The emphasis then shifts to sustainable transport planning, highlighting strategies and practices that promote environmental stewardship and long-term viability of transport systems. A significant portion of the unit is dedicated to Data Analytics and Big Data, equipping learners with the skills to harness large datasets and advanced analytical tools to inform transport planning and policy decisions. This is complemented by an in-depth review of equity and accessibility in transport, ensuring that learners understand and can address the needs of diverse populations and communities. Emerging technologies in transport, such as autonomous vehicles and smart infrastructure, are also examined, providing learners with insights into the future of transportation and its potential to transform urban mobility. The unit further explores the economic and environmental impacts of transportation systems, emphasizing the importance of integrating economic efficiency with environmental sustainability. In the final stages, the course covers stakeholder engagement and public participation, essential components for the successful implementation of transport policies and plans. Participants will learn techniques for effectively involving the public and other stakeholders in the decision-making process, fostering collaboration and consensus. This advanced unit in transport planning and policy not only equips learners with the technical skills and knowledge needed to excel in the field but also promotes a critical understanding of the broader societal impacts of transport systems. Through

a holistic and interdisciplinary approach, learners will be empowered to make informed, impactful contributions to the field of transport planning and policy.

### **Learning Outcomes**

**Upon completing the unit, learners should be able to:**

- 1. Understand advanced transport planning, modeling and simulation.*
- 2. Analyse transport policies and sustainable transport planning.*
- 3. Discuss Data Analytics, Big Data and accessibility in Transport.*
- 4. Examine emerging technologies and innovations in transport planning.*
- 5. Understand the economic and environmental impact assessment, stakeholder Engagement and public participation in transport planning.*

## ETTLM-506-2212: Advanced Marine Transportation

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Face to Face

Total Learning Hours: 150

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### Unit Description

This unit will expose learners to the world of Marine Transportation which gives entrants executive level knowledge about the means of transport where goods or people are transported via sea routes. This means of transport is the most effective and efficient way to move goods (rather than passengers) thus the whole world's economy is fully dependent on it making it the most important mode of transport for all economies. The course will commence with a brief history on marine transportation following with a detailed explanation about the types of cargo vessels that are available. It will then give details about trade and logistics which this transport mode has to offer. The course will then divulge information about the maritime economics which drives it and then it will go into details about the contemporary maritime law which controls it. Finally the course will lead the learners within the shipping market and financial management to sustain maritime transportation. Lastly the course will cover new emerging trends which shall impact marine transportation to enforce sustainability within this sector.

### Learning Outcomes

Upon completing the unit, learners should be able to:

1. *Identify International Marine Transport, Trade and Logistics as a Trade Facilitator*
2. *Describe the Fundamental regulations of Maritime Economics and Contemporary Maritime Law*
3. *Analyse the Shipping Market and Financial Management*
4. *Evaluate the maritime environment and technology to Achieve Sustainability in Marine Transportation*
5. *Evaluate the maritime Safety and Technology to Achieve Safe Marine Transportation.*

## ETTLM-506-2213: International Maritime Law

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Face to Face

Total Learning Hours: 150

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### Unit Description

Being a country in the middle of the Mediterranean Sea, International Maritime law is an aspect that greatly impacts those residing here. Not only are boats found scattered around our coastline, but many products imported from abroad are also shipped over. Maritime law is hence essential since it regulates an aspect that is a central part to our island state and also allows us to be more connected to the rest of the world. There are various regulations and pieces of legislation which go into maritime law, both at national and international level. Understanding the relevant pieces of legislation will certainly be an important tool in the industry since central elements to the modus operandi are regulated. Among the important areas that this unit will focus on are the regulations referring to the registration of ships, bills of lading, charter parties and the various zones surrounding our island that relate to jurisdictional power. This unit will offer learners the opportunity to delve deeper into salient concepts of legislation directly impacting the maritime sector. It is designed in such a way as to allow learners to not only learn the provisions of the law, but to also help them understand the practical application of various regulations.

### Learning Outcomes

Upon completing the unit, learners should be able to:

1. *Apply for ship registration within international maritime law.*
2. *Analyse the carriage of goods by sea when there are bills of lading.*
3. *Assess the carriage of goods by sea when there are charter parties.*
4. *Recognise the jurisdictional powers within international sea.*
5. *Communicate information regarding vessels used for the transport of people.*



## **ETTLM-506-2214: Road/Rail Freight, Transport and Regulatory Framework**

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Face to Face

Total Learning Hours: 150

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### **Unit Description**

Road transport is essential for various goods to be delivered to their point of departure to Malta, but also upon arrival in Malta, and till the said goods reach their final destination. There are in fact EU regulations that cater for road haulage for hire or reward and also specific regulations that cater for dangerous and special goods being carried. Understanding the relevant pieces of legislation will certainly be an important tool in the industry since central elements to the *modus operandi* are regulated. Among the important areas that this unit will focus on are the regulations referring to the operator's licensing necessities for the carriage of goods, the balance between the time drivers must spend at rest and on the road, social measures, and the hiring of a vehicle from another EU member state. The aim of this course of study is to gain necessary knowledge that can be applied in industry. This unit will offer learners the opportunity to delve deeper into salient concepts of EU legislation as also transposed into Maltese law. It is designed in such a way as to allow learners to not only learn the provisions of the law, but to also help them understand the practical application of various regulations.

### **Learning Outcomes**

Upon completing the unit, learners should be able to:

1. *Apply for an operator's license to carry goods in an informed manner.*
2. *Ensure drivers and goods vehicles meet the proper criteria.*
3. *Explain how to carry goods, including dangerous or special goods in an appropriate way.*
4. *Communicate information regarding passenger transport in Malta.*
5. *Communicate information regarding private transport in Malta.*

## ETTLM-506-2215: Fleet Management

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Face to Face

Total Learning Hours: 150

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### Unit Description

Road transport is essential for various goods to be delivered to their point of departure to Malta, but also upon arrival in Malta, and till the said goods reach their final destination. There are in fact EU regulations that cater for road haulage for hire or reward and also specific regulations that cater for dangerous and special goods being carried. Understanding the relevant pieces of legislation will certainly be an important tool in the industry since central elements to the *modus operandi* are regulated. Among the important areas that this unit will focus on are the regulations referring to the operator's licensing necessities for the carriage of goods, the balance between the time drivers must spend at rest and on the road, social measures, and the hiring of a vehicle from another EU member state. The aim of this course of study is to gain necessary knowledge that can be applied in industry. This unit will offer learners the opportunity to delve deeper into salient concepts of EU legislation as also transposed into Maltese law. It is designed in such a way as to allow learners to not only learn the provisions of the law, but to also help them understand the practical application of various regulations.

### Learning Outcomes

Upon completing the unit, learners should be able to:

1. *Apply for an operator's license to carry goods in an informed manner.*
2. *Ensure drivers and goods vehicles meet the proper criteria.*
3. *Explain how to carry goods, including dangerous or special goods in an appropriate way.*
4. *Communicate information regarding passenger transport in Malta.*
5. *Communicate information regarding private transport in Malta.*

## **ETTLM-506-2216: Advanced Air Transport Industry**

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Face to Face

Total Learning Hours: 150

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### **Unit Description**

The Advanced Air Transport Industry unit offers an in-depth exploration of the global aviation sector, focusing on its complexities and dynamic nature. This unit is designed for learners seeking to acquire a sophisticated understanding of the various components that shape the air transport industry. The curriculum covers a broad range of topics, including the economic drivers of aviation, the intricate regulatory and legal frameworks, operational strategies for airlines and airports, and the impact of technological advancements. Learners will examine the historical development of the air transport industry, identifying key milestones and understanding how past events have influenced current practices and future trends. The unit also emphasizes the importance of regulatory bodies such as the International Civil Aviation Organization (ICAO) and the International Air Transport Association (IATA), providing insights into their roles and the regulations they enforce. A significant portion of the course is dedicated to the operational and managerial aspects of airlines and airports. Participants will learn about different airline business models, airport management techniques, and the strategies used to maintain operational efficiency and profitability. They will also study the critical role of customer service in the industry and how it impacts overall success. The economic and environmental impacts of air transport are another crucial focus of this unit. Learners will explore how the industry contributes to global economies, assess the financial performance of aviation enterprises, and analyze the economic implications of various industry trends. Additionally, the unit addresses the environmental challenges faced by the industry, including the implementation of sustainability practices and adherence to environmental regulations. Technological advancements play a pivotal role in the evolution of the air transport industry. This unit will highlight the latest innovations in aircraft design, digital transformations in airline and airport operations, and emerging technologies such as unmanned aerial vehicles (UAVs) and artificial intelligence (AI). Through case studies and real world examples, learners will gain a practical understanding of how technology is shaping the future of air transport. By the end of this unit, learners will have developed the critical thinking and analytical skills necessary to navigate the complexities of the air transport industry. They will be equipped with the knowledge and expertise to influence decision-making processes, implement effective management strategies, and contribute to the industry's sustainable growth and technological advancement.

## **Learning Outcomes**

**Upon completing the unit, learners should be able to:**

- 1. Understand the Global Structure and Dynamics of the Air Transport Industry*
- 2. Analyze the Regulatory and Legal Frameworks Governing the Air Transport Industry*
- 3. Assess the Operational and Management Strategies of Airlines and Airports*
- 4. Evaluate the Economic and Environmental Impacts of Air Transport*
- 5. Examine the Role of Technology in Advancing Air Transport Operations and Services.*

## ETTLM-506-2217: Regulatory Policy and Air Law

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Face to Face

Total Learning Hours: 150

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### Unit Description

Air law is an aspect that regulates our lives more than one can imagine. Have you ever caught a plane? Have you ever used or consumed a product that was ordered from abroad? Many a time couriers send items via air to arrive at their destination faster. Being an island state, air transport is hence an essential element that allows us to be more connected to the rest of the world. There are in fact various regulations and pieces of legislation which go into air transport, both of passengers and of goods. Some of these are applicable at international level and others within the EU. Nonetheless, we also have multiple pieces of national legislation that regulates the aviation sphere which shall be delved into in this module. Understanding the relevant pieces of legislation will certainly be an important tool in the industry since central elements to the modus operandi are regulated. Among the important areas that this unit will focus on are the regulations referring to the aircraft, civil aviation, licensing and registration, security, and carriage by air including the carriage of dangerous goods. Eurocontrol will also be discussed. This unit will offer learners the opportunity to delve deeper into salient concepts of legislation directly impacting the aviation sector. It is designed in such a way as to allow learners to not only learn the provisions of the law, but to also help them understand the practical application of various regulations.

### Learning Outcomes

Upon completing the unit, learners should be able to:

1. *Identify the requirements that an aircraft should meet.*
2. *Describe central elements of civil aviation legislation including the working time regulations.*
3. *Describe security requirements, those for investigations of accidents and incident and the Eurocontrol.*
4. *Assess carriage by air as per regulations, including where dangerous goods are involved.*
5. *Explain necessary elements for air fares, denied boarding and assistance.*

## CDKSK-503-2331: Critical Thinking II

Unit level (MQF/EQF): 5

Credits: 3

Delivery Mode: Face to Face

Total Learning Hours: 75

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### Unit Description

Critical Thinking is the intellectual discipline of actively and skilfully conceptualising, applying, analysing, synthesising, and evaluating information gathered from, or generated by, observation, experience, reflection, reasoning, or communication as a guide to belief and action.

This unit equips learners with sought after skills essential to the vocational and academic life. Its main focus is on demonstrating how concepts of validity, reliability and credibility of information are highly necessary when formulating objective, analytical arguments and reaching sound conclusions. Furthermore, individuals who can critically interpret information and evaluate its origin, inherent biases, fallacies and strengths are known to be more perceptive, responsive to illogical argument, and can formulate arguments more effectively.

### Learning Outcomes

Upon completing the unit, learners should be able to:

1. *Determine the main features and components of explicit arguments.*
2. *Demonstrate effectively basic logical reasoning in a given task.*
3. *Identify common flaws in argumentation.*
4. *Construct objective, analytical arguments, and conclusions for the chosen issue.*

## **ETTLM-506-2218: Transportation Project**

Unit level (MQF/EQF): 5

Credits: 6

Delivery Mode: Face to Face

Total Learning Hours: 150

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### **Unit Description**

The Transportation and Logistics Project unit is designed to facilitate the gap between theoretical knowledge and practical applications in the field of transportation and logistics. This unit emphasizes experiential learning, where learners engage in a comprehensive project that contrasts real-world industry challenges. The unit is structured to provide an understanding of the complexities and dynamics of transportation and logistics operations. Learners will start by identifying a specific logistics challenge or opportunity, which could range from optimizing supply chain networks to enhancing transportation efficiencies or developing sustainable logistics practices. Throughout the unit, they will employ a variety of analytical and strategic tools to investigate and address the chosen problem, including the use of simulation and modelling software, project management frameworks, and risk assessment techniques. In addition to technical skills the unit focuses on project management where learners will learn to develop detailed project plans, manage resources and timelines, and ensure the delivery of project outcomes within set constraints. Learners will also be equipped with effective communication and presentation skills, enabling them to present their findings and recommendations convincingly to various stakeholders. A key component of the unit is the integration of sustainability and ethical considerations into logistics solutions. Learners will explore how to implement green logistics practices, minimize environmental impact, and address ethical issues such as labour practices and community impact. This holistic approach ensures that graduates are not only capable of optimizing logistics operations but also of making decisions that are socially and environmentally responsible. The learning experience is enriched through various teaching methods, including lectures, hands-on workshops, seminars, and guest lectures from industry professionals. These diverse instructional approaches ensure that learners gain a well-rounded understanding of the field. Collaborative group work will mimic industry team projects, promoting teamwork, leadership, and collaborative problem-solving skills. Ultimately, this unit aims to prepare learners for the complexities of the logistics industry, equipping them with the knowledge, skills, and insights necessary to succeed in a fast-paced and constantly-evolving sector. By the end of the program, learners will have created a project that demonstrates their ability to tackle real-world logistics challenges effectively and sustainably.

## **Learning Outcomes**

**Upon completing the unit, learners should be able to:**

- 1. Appraise transportation and logistics systems and processes*
- 2. Develop a comprehensive project plan addressing specific logistics challenges*
- 3. Apply industry-standard tools and methodologies to solve logistics problems*
- 4. Develop project management skills including planning, execution, and reporting*
- 5. Manage project closure and presentation in an effective manner.*