
Form CA3: Course Specification AY22-23

PART A: About the Course and/or Apprenticeship

1. Course and/or Apprenticeship Description: *a short descriptive statement used for publicity (max. 250 words):*

The MSc in Marine Engineering Management is designed to be offered both face-to-face and on a distance learning pattern of attendance. It is of specific interest to international students and professionals with a busy schedule. The course is designed for graduates and professionals who seek an in-depth education and knowledge development in the traditional, yet developing marine engineering management sector, but cannot attend regular taught classes.

Today's market-led shipping industry is entirely dependent on the ability to maintain reliable and efficient maritime assets at high utilisations and standards. As a result, the marine engineering sector requires leaders and strategic thinkers with an advanced understanding of management principles, and therefore a number of designated topics have been established that enable students to pursue clearly defined marine engineering management areas. In this way, it is envisaged that students will be able to specialise in the areas of their interest.

The programme combines a thorough understanding of the theoretical concepts of Marine Engineering Management along with case studies and practical subjects. The modules offered cover the entire range of the main shipping business areas and functions, putting particular focus on cyber security preparedness and response.

This programme has been designed to equip you with the skills and knowledge base required to work in your chosen specialism or other graduate opportunities.

2. Admissions Criteria: *what qualifications and experience do students need to get onto the course?*

Applicants can be admitted to the course as long as they possess a second class honours degree from a UK University, or a Ptychion of 6.0 and above from an AEI University or a Ptychion of 7.0 and above from a TEI University, or a Bachelor from an American University with GPA 2.75 and above or Merchant Marine Academy graduates or equivalent qualification.

Non-Standard Applications

Applicants for the programme will normally be expected to meet all entry requirements of the programme. When an applicant narrowly fails to meet the programme's entry requirements, they may still be considered for a conditional admission. An example could be that applicant tries a couple of modules. Should they be successful in those modules, they may be then given unconditional admission status.

Applications for Standalone Modules

Applicants for standalone modules will normally be expected to meet all entry requirements of the programme. Students successfully completing up to 40 credits or 2 standalone modules, will then be asked to transfer their credits to the course, should they wish to continue their studies and get a UWL award.

- 3. Course and/or Apprenticeship Structure Diagram:** Include diagrams for all *modes of study, e.g. Part Time, Full Time and all delivery dates e.g. January starts*

For Courses and/or Apprenticeships:

FT Level 7

MSc Marine Engineering Management – FT – October entry	
Level 7 – Year 1	
Semester 1	Semester 2
Foundations of Technical & Procurement Management (20 credits)	Maintenance & Inspections Management (20 credits)
Project Management – New Construction & Dry-Docking (20 credits)	Quality & Safety Management (20 credits)
Decarbonization of Shipping (20 credits)	Optional Module One (20 credits)
Research Methods and Dissertation/Project (60 credits)	

PT Level 7

MSc Marine Engineering Management – PT – October entry	
Level 7 – Year 1	
Semester 1	Semester 2
Foundations of Technical & Procurement Management (20 credits)	Maintenance & Inspections Management (20 credits)
Project Management – New Construction & Dry-Docking (20 credits)	Quality & Safety Management (20 credits)
Level 7 – Year 2	
Semester 3	Semester 4
Decarbonization of Shipping (20 credits)	Optional Module One (20 credits)
	Research Methods and Dissertation/Project (60 credits)

FT Level 7

MSc Marine Engineering Management – FT – February/June entry	
Level 7 – Year 1	
Semester 1	Semester 2
Maintenance & Inspections Management (20 credits)	Foundations of Technical & Procurement Management (20 credits)
Quality & Safety Management (20 credits)	Project Management – New Construction & Dry-Docking (20 credits)
Optional Module One (20 credits)	Decarbonization of Shipping (20 credits)
Research Methods and Dissertation/Project (60 credits)	

PT Level 7

MSc Marine Engineering Management – PT – February/June entry	
Level 7 – Year 1	
Semester 1	Semester 2
Maintenance & Inspections Management (20 credits)	Foundations of Technical & Procurement Management (20 credits)

Quality & Safety Management (20 credits)	Project Management – New Construction & Dry-Docking (20 credits)
Level 7 – Year 2	
Semester 3	Semester 4
Optional Module One (20 credits)	Decarbonization of Shipping (20 credits)
Research Methods and Dissertation/Project (60 credits)	

MSc Marine Engineering Management – Optional Modules			
Optional Modules (20 Credits)			
Module Title	Optional	Credits	SEM
HR and Crew Management in Shipping	O	20	B
Maritime Data Analytics	O	20	B
Maritime Technology	O	20	B

4. **Course Aims:** *what are the aims of the course*

1. Develop the ability to strategically identify and implement technical management principles and best practices to the operation of a forward-thinking shipping organisation.
2. Enable students to apply techniques to improve efficiencies, eliminate defects and deficiencies and improve organisations' competitiveness and operational excellence as a result.
3. Provide a systematic understanding of how policies, management systems, and cultures impact company performance and develop quality improvements from a technical and financial perspective.
4. Build awareness of relationships and logistical challenges within the maritime supply chain and deal with the implications of payment and purchasing policies.
5. Enable students to apply proven project management techniques and strategies to develop new construction and dry-docking management processes.
6. Develop the skills and knowledge needed in terms of personal effectiveness to manage and lead a marine technical function.

5. **Content by Level:** *how does the course build and develop over time*

Level 3/4/5/6/7/8 *(delete as appropriate)*

Level 7

This MSc in Marine Engineering Management is designed to respond directly to the real needs of the maritime industry, and to equip graduates with the skills needed today and, in the future, especially in view of the rapid technological development and disruption in the sector and the forthcoming “4th Propulsion Revolution”. It is academically challenging and professionally oriented. Several designated modules have been established that enable students to pursue clearly defined marine engineering management areas. In this way, it is envisaged that students will be able to specialise in the areas of their interest.

The MSc Marine Engineering Management is the ideal postgraduate degree for achieving or developing high caliber careers in the shipping industry. As the programme is offered on a distance learning pattern of attendance, it is of specific interest to international students and professionals with a busy schedule. The course is designed for graduates and professionals who seek an in-depth education and knowledge development in the traditional, yet developing maritime sector, but cannot attend regular taught classes.

The course combines a thorough understanding of the theoretical concepts of marine engineering, along with case studies and practical subjects. The modules offered cover the entire range of the main generic marine engineering management areas and functions and put particular focus on decision making for graduates without an engineering background that seek a demanding conversion course.

The MSc Marine Engineering Management is designed to be flexible and tailor made through a number of modules that enables focus on specific job areas usually pursued by graduates within shipping companies.

Upon successful completion, graduates are expected to excel in their professional career, leading to higher levels of managerial positions in shipping companies and organisations.

The MSc Marine Engineering Management scheme is unitised within a 180 ‘M’ level credit rated programme. The structure represents an appropriate suite of units that reflect the needs of students, the market and the available resources. Students will attend six core modules (120 credits).

This course is principally distinctive in that it develops a broad and critical understanding of Shipping theory, research and practice.

Other distinct features are:

- **Web-based learning.** The programme provides Web-based learning using technologies and tools in a learning process. The learner-student uses mainly computers to interact with the lecturer, other students and learning material. This form of learning consists of technology that supports traditional classroom training and online learning environments. BCA college technology provides and facilitates Web based instruction. This is delivered by a combination of static learning portals, hyperlinked pages, screen cam tutorials, streaming audio/video, and live Web broadcasts as well as by interactive methods such as discussions and chats. The programme adds value to the practical application of shipping

management concepts and theories by inviting guest lectures. Video communication is available for the interaction of guest lectures with students, via our web-based technology.

- **Emphasis on employability:** The programme places great emphasis on improving students' employability opportunities by developing both shipping specific and generic business management skills and competencies.
- **Distance learning pattern of attendance.** The programme is of specific interest to international students and professionals with a busy schedule.
- **Personalisation, interactivity and engagement,** that largely contributes to personal and professional development through lectures material (video, captions, slides, notes, links to case studies, papers and articles for further reading, self-assessment material), forums and discussion networks, webinars, as well as other informative material.
- **Enriched student engagement** through the use of synchronous and asynchronous communication tools between the instructors and the students with the use of customised services added to the platform such as the BigBluebutton.
- **Enhanced perpetual adaptation** to current knowledge and experience, creating content-rich material within a virtual learning environment that signifies a class feeling with a timely support that enables continuous interaction with the course for constant self-improvement and an integrated learning experience.
- **Fine balance of theory and practice:** The programme structure offers both advanced knowledge of international shipping as well as practical skills and knowledge of current issues of shipping.
- **Flexibility of subject area focus:** The optional modules allow participants to focus on the desired specialisation area.
- **Programme Origin:** Participants can benefit from the opportunity to study shipping modules delivered by high caliber academics and shipping professionals originating from the largest and most successful shipping cluster in the world.
- **Flexibility of attendance:** The programme allows students to plan their studies around their other life commitments, at their own pace; enables students to access the course material over and over again irrespective of location, time zone and availability; permits self-paced learning, where each student develops their own learning style.
- **Self-assessment:** The programme incorporates multiple self-assessment tests for students to monitor their own learning
- **Course material:** The programme: maintains and often surpasses the richness of traditional learning material, as it is organised through modern tools; offers classroom feeling through user-friendly videos; implements live teaching sessions through the latest e-conference tools.
- **3 entry points:** The programme allows students to plan their studies around their other life commitments by offering 3 entry points: October, February, and June.

6. Course Learning Outcomes: *what students are required to achieve on this course*

In addition to completing this table, you may need to complete and append Form CA5 (Mapping) to show the relationship of these academic course learning outcomes to the Knowledge, Skills and Behaviours (KSBs) of the Apprenticeship Standard and, where appropriate, any PSRB standards.

	Learning Outcomes	Relevant Modules
Knowledge and understanding	<ol style="list-style-type: none"> 1. A systematic understanding of knowledge, and a critical awareness of current problems and/or new insights in the Marine Engineering academic discipline and profession 2. Comprehensive understanding of techniques applicable to the Management of Marine Engineering Functions 3. Originality in the application of knowledge and established techniques in relevant research and best practices with a view of developing and applying effective marine engineering management strategies. 	Foundations of Technical & Procurement Management Project Management – New Construction & Dry-Docking Decarbonization of Shipping Maintenance & Inspections Management Quality & Safety Management Research Methods and Dissertation/Project HR & Crew Management Maritime Technology Maritime Data Analytics

<p>Intellectual/Cognitive skills</p>	<ol style="list-style-type: none"> 4. Find, read, understand, and explain literature related to advanced and specialised areas of marine engineering management, including technical publications, industry and manufacturers documentation, standards, regulations, ethical, legal and environmental guidance, and be able to formulate an appropriately scoped marine engineering management research project from interpretation and analysis of that literature. 5. Ability to manage their own learning, and to make use of scholarly reviews and primary sources such as research articles and/or original materials appropriate to the marine engineering professions. 6. Critically evaluate arguments, assumptions, abstract concepts, and data to make judgements and/or identify a range of solutions to a problem. 	<p>Foundations of Technical & Procurement Management Project Management – New Construction & Dry-Docking Decarbonization of Shipping Maintenance & Inspections Management Quality & Safety Management Research Methods and Dissertation/Project HR & Crew Management Maritime Technology Maritime Data Analytics</p>

<p>Subject practical skills</p>	<p>7. Act autonomously in planning and implementing tasks at a professional level with the view of developing new skills to a high level.</p> <p>8. Describe best practices in the implementation of a technical function within a shipping organisation, appraise and analyse different solutions for identified problems or risks, and be aware of general principles and strategies that can be applied to manage and/or minimise identified risks.</p>	<p>Foundations of Technical & Procurement Management Project Management – New Construction & Dry-Docking Decarbonization of Shipping Maintenance & Inspections Management Quality & Safety Management Research Methods and Dissertation/Project HR & Crew Management Maritime Technology Maritime Data Analytics</p>
<p>Transferable skills</p>	<p>9. Reflect constructively on their own learning experience in making decisions about their future and enhancing their career prospects.</p> <p>10. Use a range of sources, both conventional and electronic, to locate relevant information, and critically appraise that information.</p> <p>11. Communicate effectively, and present specialist information tailored to a variety of audiences.</p>	<p>Foundations of Technical & Procurement Management Project Management – New Construction & Dry-Docking Decarbonization of Shipping Maintenance & Inspections Management Quality & Safety Management Research Methods and Dissertation/Project HR & Crew Management Maritime Technology Maritime Data Analytics</p>

	12. Work independently on a significant individual project, and understand the necessary steps to define and execute the project, managing time and risk in an effective manner.	
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7. Learning, Teaching and Assessment Strategies: *how will students learn, how will students be assessed, and why are these the most appropriate methods*

Level 7

Teaching and Learning

The teaching and learning aspects are designed to be centred around the student and encourages active participation. The rationale is to enhance students' learning and understanding of the subjects as well as encourage them to become independent learners. Each student will be allocated an academic personal tutor, who will provide support or guidance.

Knowledge and Understanding skills as well as cognitive and intellectual skills will be provided through lectures and webinars, also with the use of guest experts in the field and with guided independent study.

In particular a series of short weekly announcements that tell students where they should be in the assessment process by the end of that week.

Use short online multiple-choice self-tests to allow students to gauge their understanding of key terms and concepts.

Direct students to use 'forums' to handle any general questions about the subject matter or coursework, so that the lecturers' answers to common questions are there for all to see.

Cognitive and intellectual skills will be provided through case studies analysis and academic papers. Provide online resources such as links to readings.

Subject practical skills will be provided through video lectures, webinars.

Transferable skills will be provided through, essay and report writing. Link self-tests to the release of different sections of material including model answers or the 'lecturer's view' on complex or contentious issues. Provide incoming students with links to information and resources about the institution and the course.

Tailoring more the teaching process around the strengths and weaknesses of the students and through the use of multiple methods, mediated (such as videos and

web links) and non-mediated. Seminars/workshops with selected practitioners in the field.

Assessment Strategy

A mixture of assessment activities to examine a range of learning outcomes and to reflect knowledge and understanding of the content of the master programme will be used. Provide online formative review of drafts lecturers. Online discussion opportunities for students and tutors to discuss the meaning of the assessment criteria and the assessment process. The range of assessments used at Level 7 includes: written assignments in the form of (essays, reports, and case study analysis), presentations and portfolios consisting of set exercises.

Cognitive and intellectual skills will be assessed by practical exercises and coursework.

Specific modules will require practical skills, collecting and interpreting data, applying relevant models, using software packages, organising and controlling resources, producing reports, and presenting and justifying results and recommendations.

Key Transferable skills will be provided through written assignments and reports as well as with presentations.

Students will be provided with formative feedback for drafts of the summative written assignments.

The Dissertation/Project will draw together the full range of skills across the programme.

8. Course Contact Hours:

Learning hours are determined by credits. One credit is worth 10 learning hours, so a 20 credit module is 200 learning hours, a 40 credit module is 400 hours etc. This is the amount of time a student should be prepared to commit to each module.

Learning hours are divided into: taught or 'contact' hours, i.e. the amount of time students spend in contact with academic staff, whether through face-to-face classes or online learning; and independent study, i.e. the amount of time students are expected to spend on their own study and assessment preparation. Independent study may be guided where students are set structured tasks e.g. Online quizzes or fully independent where students undertake their own unstructured study e.g. Reading and research. Students also have one-to-one time with academic staff in personal tutorials.

9. Academic Staff:

BCA academic staff are employed either on a full-time contract or on a part-time hourly paid contract. Both full-time and part-time academic staff are required as a minimum to have a master's degree and ideally should hold a PhD or be registered on a doctorate programme. Hourly paid teaching staff are also used across the board and these colleagues bring a wide range of professional, specialist and industry experience to the teaching of our students. The College is committed to supporting the professional development of its staff through staff induction, training and development activities.

10. Formal and Informal Links with External Organisations/Industry Partners: *what opportunities are there for students to interact with professional contacts.*

This programme does not include a placement / work experience element. Students are welcomed to use the Career Office services in order to explore placement opportunities and keep in touch with the industry, but not as compulsory and integral part of this programme. The Career Office operates with three main objectives:

1. To consult students on how to research jobs, help them curate their CVs, enhance their performance at job interviews, etc.
2. To bring together companies searching for employees and BCA current students and alumni (collaborating companies announce job postings to BCA, which are then published to our students; the career office mediates in order for students to arrange

interview sessions). Examples of such companies include: DNV.GL, Marmaras Navigation Ltd., DELTA Tankers, Minoan Lines, Tsakos Columbia Shipmanagement SA, Blue Planet Shipping Ltd., Piraeus Container Terminal SA, Celestyal Cruises, Karafyllis Informatic Systems SA, LALIZAS, Club Med, Mellon Group, Athens International Airport S.A., Nuntius Brokerage & Investment Services S.A., New Mind Executives, Golden Cargo Maritime Logistics, Optilog Advisory Services, ONLINE DATA SA, JUNGHEINRICH, DHL Express Hellas, AVIN International SA, Anangel Maritime, Diamond Shipbroking Ltd, Epsilon Hellas, Mayamar, Delphic Maritime Training Center, Atlantic Bulk Carriers, Pantheon Tankers, Blue Star Ferries, etc.

3. To organise an annual Career Day event, where BCA's students/graduates of all disciplines, are given the opportunity to meet and network with respected executives of leading Greek and foreign companies, obtain insights regarding the industry of their choice and valuable experience regarding the interview process, and finally get a job offer. Examples of participating companies include: Laskaridis Shipping Company Ltd., Atlantic Bulk Carriers Management Ltd, Diana Shipping Services SA, Euronav Ship Management (Hellas), Kyklades Maritime Corporation, LATSCO Marine Management INC, TMS Dry LTD, V. Ships Greece Ltd., etc. Furthermore, students have frequent contact with relevant professional practitioners through guest lectures, workshops, workplace tours, etc. All these activities enable students to enhance their knowledge on the industry, to see the practical application of learned concepts, and to envision future career paths. [ck here to enter text](#)

11. Student Support Arrangements: *what academic and pastoral support and advice are available*

STUDENT SUPPORT

College-wide Support Services for *all* students:

- Academic Advising / Personal Tutoring
- Student Academic Support Services
- Career Office
- Disability Advice
- Library Services
- IT Support

Student guidance, help and support is further detailed in the Student Handbook with regard to college facilities, services and current policies:

<https://learning.shipping.education>

Undergraduate and taught postgraduate courses

The College-wide support framework encompasses:

- Induction
- Course Leaders
- Module Leaders
- Personal Tutors
- VLE (Moodle / iLearn)
- In-course learning skills development*
- Personal Development Skills**

*Learning skills include critical appraisal, reflection, literature searching, information technology, group work, presentation, research, practice/professional skills, note-taking, writing skills, communication skills and independent study at home.

**Personal Development Skills have been embedded in undergraduate degree courses through levels 3-6. The Academic English and Study Skills (at level 3) and the Academic Writing and Professional Skills module (at level 4) are designed to support the development of academic skills and transferable skills such as time and stress management, teamwork, problem solving and decision making for personal success in academic and professional life. More modules at levels 5 and 6 support the employability and personal reflection and research enquiry linked to career options. Guest speakers and field visits provide students with networking opportunities.

12. Assessment Matrix: *a list of all the assessments on the course, along with how much they count for and where they come in the year.*

Assessment type

Written Examination: a seen or unseen examination
Oral Examination: a face-to-face discussion with a panel of examiners
Written Assignment: e.g. report, essay, short essay, review, analysis, case study, creative and/or professional brief, dissertation, thesis, literature review, research method essay, research proposal, in-class test, multiple choice questionnaire (MCQ), mathematical/statistical problem, online test, web-based exercise, translation
Oral Assignment: individual or group presentation, discussion, defence, pitch, performance, teaching
Portfolio: a series of short written, creative, linguistic or mathematical tasks collected as part of one assignment
Artefact: visual, audio, software, composition, design, culinary, artistic
Practical: experiment, clinical, educational or hospitality practice-based assignment

Module Title and Code	Core /Optional (write C or O)	Credit	Assessment Type (choose from the dropdown list)	Weighting (%)	Overall module/ element pass mark	Submission: Week Number (indicative)
Level 7:						
<i>Foundations of Technical and Procurement Management</i>	C	20	<i>Written assignment</i>	40%	50%	<i>Week 7</i>
			<i>Written assignment</i>	60%		<i>Week 14</i>

Module Title and Code	Core /Optional (write C or O)	Credit	Assessment Type (choose from the dropdown list)	Weighting (%)	Overall module/ element pass mark	Submission: Week Number (indicative)
<i>Project Management – New Construction and Dry-docking</i>	C	20	<i>Written assignment</i>	40%	50%	<i>Week 8</i>
			<i>Written assignment</i>	60%		<i>Week 13</i>
<i>Decarbonization of Shipping</i>	C	20	<i>Oral assignment</i>	30%	50%	<i>Week 6</i>
			<i>Written assignment</i>	70%		<i>Week 12</i>
<i>Maintenance & Inspections Management</i>	C	20	<i>Written assignment</i>	40%	50%	<i>Week 6</i>
			<i>Written assignment</i>	60%		<i>Week 12</i>
<i>Quality & Safety Management</i>	C	20	<i>Oral assignment</i>	30%	50%	<i>Week 7</i>
			<i>Written assignment</i>	70%		<i>Week 14</i>
<i>HR and Crew Management</i>	O	20	<i>Written assignment</i>	50%	50%	<i>Week 7</i>

Module Title and Code	Core /Optional (write C or O)	Credit	Assessment Type (choose from the dropdown list)	Weighting (%)	Overall module/ element pass mark	Submission: Week Number (indicative)
			<i>Written assignment</i>	<i>50%</i>		<i>Week 13</i>
<i>Maritime Data Analytics</i>	<i>O</i>	<i>20</i>	<i>Written assignment</i>	<i>50%</i>	<i>50%</i>	<i>Week 8</i>
			<i>Written assignment</i>	<i>50%</i>		<i>Week 13</i>
<i>Maritime Technology</i>	<i>O</i>	<i>20</i>	<i>Written assignment</i>	<i>50%</i>	<i>50%</i>	<i>Week 7</i>
			<i>Written assignment</i>	<i>50%</i>		<i>Week 12</i>
<i>Research Methods and Dissertation/Project</i>	<i>C</i>	<i>60</i>	<i>Written assignment</i>	<i>20%</i>	<i>50%</i>	<i>Autumn Semester, Week 11</i>
			<i>Written assignment</i>	<i>80%</i>		<i>June/September (depending on entry point)</i>