

HIGHER TECHNICAL PROFESSIONAL COURSES

INDUSTRIAL MAINTENANCE



2017/2018 ACADEMIC YEAR



INSTITUTO
POLITÉCNICO
DA MAIA **IPMAIA**

INDUSTRIAL MAINTENANCE

COORDINATOR

Francisco Fernando Martins da Silva

CONTACT DETAILS

coord.ip.mi@ipmaia.pt

This Higher Technical Professional Course is a vocational training course taught as part of polytechnic higher education and lasts 4 semesters, corresponding to 120 ECTS.

The course is organised into general and scientific training, technical training and on-the-job training (internship), and each student is awarded with a **Higher Technical Professional Diploma at level 5 of the European Qualifications Framework for Lifelong Learning**.

1. Professional profile

The Higher Technical Professional Course in Industrial Maintenance aims to train professionals who are able to **manage and supervise maintenance departments** at small, medium or large industrial companies, especially in the electromechanics field. They will also be able to **implement and adopt preventive or corrective maintenance** on its various aspects, according to structural changes in production systems demanded by technology evolution.

2. Professional opportunities

High-level staff in the field of industrial maintenance; mid-level staff in industrial companies; head of maintenance department; head of technical services; head of multidisciplinary teams in the field of industrial maintenance; head of post-sales care; head of workshop; technical and sales activities in companies that supply materials for the electrical/electronics industry and the metalwork/metal mechanics industry.

3. Entry requirements (one of the following)

- 3.1 Having completed a **secondary education course** qualification or a legally equivalent qualification.
- 3.2 Having passed the special exams for assessing capacity to attend higher education for **people over 23** (Decree-Law no. 64/2006 of 21 March).
- 3.3 Holding a technological specialisation diploma, a higher technical professional diploma or a higher education qualification.

4. COURSE STRUCTURE

YEAR 1 - 60 ECTS

	Course units	Sem.	Contact hours	ECTS
General and scientific training	Communicating in the Portuguese Language	1	50	5
	Human Behaviour in Organisations	1	50	5
	Economic and Social Culture	1	50	5
	Technical English	2	50	5
	Business Organisation and Management	2	50	5
Technical training	Workshops and Maintenance	1	40	4
	Thermodynamics	2	40	4
	Computerized Technical Drawing	2	50	5
	Industrial Automation and Tribology	2	50	5
	Materials Chemistry	1	50	5
	Electricity and Electronics	1	60	6
	Mechanics, Strength of Materials and Machine Parts	2	60	6
			600	60

YEAR 2 - 60 ECTS

	Course units	Sem.	Contact hours	ECTS
Technical training	Materials Technology and Manufacturing Processes	1	40	4
	Thermal and Hydraulic Machines	1	50	5
	Electrical Machines and Electrical Systems	1	50	5
	Energy Management and Energy Efficiency	1	50	5
	Heating, Ventilation and Air Conditioning Systems	1	50	5
	Maintenance Organisation and Management	1	60	6
On-the-job Training	On-the-job Training – Internship (750 hours)	2		30
			300	60
	Total		900	120

FOR FURTHER INFORMATION

🌐 ipmaia.pt • 📘 fb.com/ipmaia.pt



Exclusive conditions

- Extensive parking on campus.
- A comfortable, welcoming environment throughout the campus.
- Easy access by public transport, particularly the metro at ISMAI station.
- An environment with new technologies and sport, improved with the construction of a new, state-of-the-art sports complex.

Address

Avenida Carlos de Oliveira Campos
Castêlo da Maia
4475-690 Maia

Telephone number: (+351) 229 866 026

E-mail: info@ipmaia.pt



Metro/Line C - ISMAI

5. Continuing studies – Bachelor's degrees

- 5.1 The application by holders of Higher Technical Professional Diplomas to attend IPMAIA Bachelor's degrees is subject to the conditions established by the institution body that is competent to do so in accordance with the law and the statutes. Depending on the Higher Technical Professional Course and Bachelor's degree, these conditions may establish the need to pass a specific IPMAIA admission exam, or allow the exemption to perform such an exam.
- 5.2 Credits acquired on the Higher Technical Professional Course may be transferred to a Bachelor's degree programme when continuing studies.

Observations

- a) Students who intend to apply for an IPMAIA Bachelor's degree course and must sit the specific admission exam will receive suitable preparation during the teaching of the Higher Technical Professional Course.

