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Course No: P000499

PROGRAMME SCHEDULE:

Full-day attendance for 20 days in total (four study blocks of 5 days each) at the main campus of the University of Pretoria is required.

- Block 1:** 15 - 19 February 2010
- Block 2:** 12 - 16 April 2010
- Block 3:** 19 - 23 July 2010
- Block 4:** 05 - 08 October 2010

ACCREDITATION:

The University of Pretoria is an accredited higher education provider.

The programme is recognised by ECSA for CPD points.

PROGRAMME FEE:

The all-inclusive programme fee is R26 510 per delegate. This includes:

- Text book plus extensive course notes for each module
- Refreshments and lunch
- Financial/business calculator
- Social function during last block

The full fee should be paid at least two weeks before commencement of class.



PMM 2010

Programme in Maintenance Management

The University Certificate Programme in Maintenance Management



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UNIVERSITY OF PRETORIA

OBJECTIVES

The professional management of maintenance of technical assets is becoming increasingly difficult due to the complexity of the resources and processes involved. Managers of **process plants, assembly plants, power generation systems, mines, factories, buildings and fleet systems**, will obtain the required theoretical knowledge, tools, techniques and practical skills to succeed in maintenance and asset management. Successful candidates will receive the **Certificate in Maintenance Management** awarded by the University of Pretoria.

WHO SHOULD ENROL?

This programme is aimed at the maintenance supervisor, planner, or any maintenance worker, who has to perform maintenance supervisory tasks, or who is actively involved in the management of physical assets or maintenance processes. The skills and techniques obtained in this programme are relevant to all enterprises, including government sectors, that have to maintain physical assets to ensure long-term production capability or service delivery.

PROGRAMME FORMAT

The programme comprises **eight modules** that are presented in four blocks of one week each (20 days). Assessment is based on group assignments and an individual assignment on a work-related problem. Presentation of modules consists of lectures, group discussions and case studies. All modules are presented in English.

EXPERIENCED AND PROFESSIONAL LECTURERS

Lecturers from the Department of Engineering and Technology Management as well as industry are used for this programme. All lecturers have extensive practical experience as well as academic qualifications. The lecturers of the Department perform research in their respective areas of maintenance and asset management and contribute regularly at international conferences such as the bi-annual Euromaintenance Conference in Europe, the International Conference of Maintenance Societies (ICOMS) in Australia, and the World Congress on Engineering Asset Management (WCEAM).

PROGRAMME CONTENT

Principles of Maintenance Management

- Overview, history and frameworks
- Maintenance planning
- Organising the maintenance resources
- Controlling the maintenance function

Managing Maintenance Workers

- Team building
- Motivation of workers
- Leadership
- Unions

Managing Finances in Maintenance

- Financial evaluation
- Time value of money
- Asset investment decisions
- Budgeting for maintenance

Condition Based Maintenance

- Rationale for condition monitoring
- Overview of monitoring techniques
- Vibration monitoring
- Oil analysis

Managing Maintenance Information

- Types of information in maintenance
- Development of maintenance information systems
- Implementation of a CMMS
- Enterprise asset management systems

Risk Management

- Risk management process
- Risk-centered maintenance
- Risk based inspection
- SHE risks

Maintenance Improvement & Strategy

- Improving maintenance performance
- Strategy development
- Problem solving in maintenance
- Root cause failure analysis

Maintenance Approaches & Strategies

- Reliability-centred Maintenance (RCM)
- Total Productive Maintenance (TPM)
- Business-centred Maintenance (BCM)
- Other maintenance approaches



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