

University of Pretoria Yearbook 2021

Maintenance operations 783 (MIP 783)

Qualification Postgraduate

Faculty Faculty of Engineering, Built Environment and Information Technology

Module credits 16.00

NQF Level 08

Prerequisites No prerequisites.

Contact time 2 lectures per week

Language of tuition Module is presented in English

Department Mechanical and Aeronautical Engineering

Period of presentation Semester 2

Module content

Understanding the Maintenance Function: Maintenance Models, Maintenance Profit Impact, Maintenance Reliability Centredness, Strategic Fundamentals,
Building a Business Case for Maintenance, Maintenance Management Systems: Philosophies, System Structure, Database Structure, Maintenance Administration, Work/Cost/Materials Control,
Maintenance Cost Management: Maintenance Cost Strategies, Maintenance Budgeting, Maintenance Cost Analysis,
Total Productive Maintenance: History, Benefits, Structure, Implementation,
Strategic Thinking in Maintenance: Principles, The role of a Maintenance Policy, Measurement,
Quality in Maintenance: Quality Principles, Total Quality Management, Maintenance Application,
Maintenance Risk: Risk Calculation, Macro Risk Management, Micro Risk Management,
World Class Maintenance: Definitions, Methods to achieve WCM.

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