

University of Pretoria Yearbook 2020

Maintenance operations 783 (MIP 783)

Qualification	Postgraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
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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