

University of Pretoria Yearbook 2022

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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