MMPN004 Operation and Maintenance of Construction Equipment

ASSIGNMENT

Program Name and Code: MBA Construction Management (MBACN)

Course Code : MMPN-004

Course Title : Operation and Maintenance of Construction Equipment

Assignment Code : MMPN-004/TMA/JANUARY 2026/JULY/2026

Coverage : All Blocks

Note: Attempt all the questions and submit this assignment to the Coordinator of your study centre. Last date of submission for January 2026 Semester is 30 th April, 2026 and for July 2026 Semester is 31 st October 2026.

1. a) Enlist and discuss the various basic concepts of a good organization
   b) Enumerate the various hire charges of a construction equipment and discuss each of them in brief.

2. a) What is meant by equipment planning and what is the primary requirement of scheduling a project? Discuss, in detail.
   b) How does the equipment planning team decide the requirement of construction equipment and what is the way to procure and phase it out on a project?

3. a) Explain in detail the ABC analysis of stock planning? What are the A, B and C items of construction equipment?
   b) Discuss the requirement of maintenance management in detail. Also explain the functions of equipment maintenance organization.

4. a) Why do breakdowns occur in construction equipment and how do they effect production of an equipment? Also, explain the various ways of handling breakdowns. Explain in detail
   b) Explain the performance characteristics of a centrifugal pump in detail.

5. a) Write short notes on the following:

   i) Maintenance Schedule

   ii) Maintenance after each shift

   iii) Daily Maintenance

iv) Maintenance after every working season

v) Maintenance schedule vs Civil Construction Program

b) Discuss, in detail the characteristics of Internal Combustion (IC) engines for heavy construction equipment.