

# BMM3643 Manufacturing Processes Surface Treatment

## Individual Assignment 7

by

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# Individual Assignment 7 - Surface Treatment

- Aims
  - Able to analyze the various types of surface treatments process.
- Expected Outcomes
  - Understand and able to apply the knowledge in order to select the suitable surface treatments for different application.
  - Understand the design considerations for surface treatments.



# Surface Treatments

1. Explain the difference between case hardening and hard facing?
2. Describe the principles of physical and chemical vapor deposition. What applications do these processes have?
3. What is electroplating? Why can it be hazardous?
4. What are the advantages of roller burnishing?
5. Explains why some parts may be coated with ceramics. Gives some examples of application that used ceramics as coating materials.



# Individual Assignment 7 Format

Please remember to **include the questions** given in the assignments. **Cover page** of the assignment should include:

1. Your Name & No. Matric
2. Section
3. Lecturer's Name
4. Submission date

Late submission also will be penalized.

