

ALPHA COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF DIPLOMA MECHANICAL ENGINEERING

FABRICATION TECHNOLOGY(3361905) 6TH SEM DIPLOMA MECHANICAL

FREQUENTLY ASKED QUESTION

INTRODUCTION

1. Explain need and scope of fabrication technology in industries.
2. Explain concept and importance of weldability.(MAY-11,DEC-11)
3. Discuss various factors affecting the weldability.(MAY-2014,13)
4. Classify power source and give its advantages and applications.(DEC-14)

DRAWING INTERPRETATION

5. Give different locations and positions used in welding.
6. Give the various symbols and nomenclature used in welding processes.
7. Explain: What is Weld Test Plan (WTP) and Shop Weld Plan (SWP).
8. Explain need and area of applications for different codes used in fabrication industries.
9. Explain applications of weld - square butt, groove, fillet, plug, with sketches
10. Explain Types of joint butt, lap, corner, tee and edge
11. What is edge preparation ? State its need and advantages in brief.(may-2011,dec-2011)

Fabrication Processes and Safety.

12. Explain Preheating method and applications .
13. Explain Post Weld Heat Treatment (PWHT) method. and applications and selection criteria of PWHT
14. Define Arc welding parameters-setting criteria:
 - i. Voltage.
 - ii. Current.
 - iii. Welding speed.
 - iv. Welding feed.
 - v. Arc length.
15. What is Ultrasonic welding? Explain with neat sketches.
16. Write short note on
 - i) Laser beam welding. (may-11,13)
 - ii) Electron beam welding.
17. Explain Welding automation.
18. Compare plasma arc welding and TIG welding.(may-13,sep-13,dec-2014)

19. INSPECTION AND TESTING

20. Explain common weld defects with their causes and remedies.
21. Explain concept of thermal distortion.
22. Explain types of thermal distortion.
23. Explain methods and equipments used to reduce thermal distortion.
24. Explain the concept of weld quality and factors affecting it.
25. Explain the stages of inspection.
26. Explain the impact, bend and hardness test of destructive testing.
27. Explain magnetic particle testing and ultrasonic testing of NDT.
28. Explain liquid penetrant and eddy current testing of NDT.
29. Explain various surface preparation methods.
30. Explain various surface finishing methods.
31. Explain surface colour coating by brush, roller and spray applications.

INSTALLATION,ERECTION AND COMMISSIONING

32. Explain erection steps for common fabrication structure.
33. Explain erection steps for piping.
34. Explain erection steps for equipment to be fabricated.
35. Explain installation and commissioning procedures for plant machineries and fabricated equipment.