

Courses

1. Reading blueprints
2. Reading Schematics and Symbols
3. Mathematics
4. Maintenance Measurements
5. Hand tools use and safety
6. Power tools use and safety
7. Safety
8. Introduction to troubleshooting skills
9. Principles of mechanical maintenance
10. Lubrication
11. Power transmission equipment
12. Force and motion
13. Pumps
14. Bearing
15. Piping
16. Basic pneumatics
17. Pneumatic troubleshooting
18. Basic Hydraulics
19. Hydraulic troubleshooting
20. Principles of electrical maintenance
21. Principles of electrical troubleshooting
22. Electrical safety
23. Batteries and DC circuits
24. Transformers and AC Circuits
25. Electrical equipment
26. Single-phase motors
27. Three phase systems
28. AC control equipment
29. DC equipment and controls
30. Semiconductors
31. Power supplies
32. Amplifiers
33. VFDs
34. Programmable logic controllers
35. Oscillators
36. Digital Logic Systems
37. Basic milling procedures
38. Indexed milling procedures

39. Multiple machine procedures
40. Machine shop practices
41. Machine shop job analysis
42. Lathe – Turning work between centers
43. Lathe – machining work in a chuck
44. Machine shop turning operations
45. Machine shop shaping operations
46. Bulk handling conveyor
47. Mechanical and fluid drive systems
48. Pump installation and maintenance
49. Bearing and shaft seal maintenance
50. Mechanical drive maintenance
51. Tubing and hose maintenance
52. Valve maintenance
53. Intro to packaging machinery
54. Casing machinery
55. Packaging machinery
56. Steam generation
57. Using steam
58. Welding principles
59. Arc welding operations
60. Oxyfuel operations
61. Maintenance organization
62. Implementing Preventive Maintenance
63. Improving performance in maintenance
64. Controlling maintenance resources
65. Effective communication for supervisors
66. Managing a training program