of hand and power tools of the trade and ladder and scaffold safety, selection, construction and the associated hazards. Oxyfuel cutting and associated safety

National Center for Construction Education & Research. (2017). *Pipefitting*. Retrieved from National Center for Construction Education & Research: https://www.nccer.org/workforce-development-programs/disciplines/craft-details/pipefitting

Recommended Course Activities:

Under the supervision of the instructor, the trainee should be able to do the following through worksheets, projects, reading assignments and exercises:

1. Identify various pipefitting hand tools.
2. Secure a section of pipe in a vise and pipe stand.
3. Properly use:
   a. Straight pipe wrenches
   b. Offset pipe wrenches
   c. Chain wrenches
   d. Strap wrenches
4. Properly use:
   a. Laser level
   b. Torpedo and larger levels
   c. Tubing water level
   d. Center finder
5. Check square and level:
   a. Turn tongue 180 degrees from where it was.
   b. Flip level to ensure it is level
6. Cut pipe using a portable band saw (do not use threading machine).
7. Operate a portable grinder.
8. Replace dies in a threading machine.
9. Cut, ream and thread pipe using a threading machine.
10. Cut and thread nipples using a nipple chuck.
11. Thread pipe using a portable power drive.
12. Identify several types of pipe bevelers.
13. Set up oxyfuel equipment.
14. Light and adjust an oxyfuel cutting torch.
15. Shut down oxyfuel cutting equipment.
16. Disassemble oxyfuel equipment.
17. Change empty cylinders.
18. Perform straight line and square shape cutting.
19. Perform piercing and slot cutting.
20. Perform bevel cutting.
21. Perform washing.
22. Select, inspect and use stepladders.
23. Select, inspect and use straight and extension ladders.
24. Erect, inspect and disassemble tubular buck scaffolding.
25. Perform all prestart checks for engine-driven generators.
26. Set up and operate engine-driven welding machines.
27. Operate engine-driven generators.
28. Perform all prestart checks for portable air compressors.
29. Operate portable air compressors.
30. Identify portable pumps to use for specific applications.