

HP Soldering Video Homework Assignment

Watch HP soldering video accessible on Poly Learn and answer the following questions.

1. What is the purpose of soldering?
2. What is meant by wetting?
3. Wetting is indicated by:
4. What are the two elements of traditional solder?
5. 60/40 solder is the most common, what % is tin and what % is lead?
6. TRUE OR FALSE: 40/60 solder has a lower melting temperature than 60/40 solder does.
7. Which traditional solder alloy does NOT have a soft (liquid + Solid) state?
8. What is the purpose of flux?
9. When hand-soldering electronics (and in the IME156 lab) _____ - core solder is used.
10. What is the recommended power rating of soldering irons used for typical electronics work?
11. How often should you clean your soldering iron tip while soldering?
12. Clean your soldering iron tip with:
13. What is meant by tinning?
14. What is an advantage of keeping your soldering iron tip tinned?

15. How is a wire properly attached to a terminal before soldering the wire to the terminal?

16. What are the four basic steps to soldering?

17. Once finished soldering, don't forget to _____ the lead.

18. A good solder joint is _____ and _____ and feathers out to a thin edge.

19. What are the two main causes of poor (cold) solder joints?

20. TRUE OR FALSE: A wire with burnt insulation in electronics manufacturing is acceptable.

21. What can cause a copper trace to lift and no longer adhere to the PCB substrate?

22. What four tools can be used to desolder?

- a.
- b.
- c.
- d.

23. What is solder wick?

24. How is a solder wick used to remove solder?

25. To unsolder components with thick leads, first: