Pretest Install Large Conduits ELEA1807.05

1. How is the size of a conduit determined? Size and number of conductors to be installed

2. How is a large conduit (feeding multiple motors) typically terminated? Splitter trough

3. Where are regulations regarding the installation of larger sizes of conduit found? CEC (Mainly section 12 but throughout)

4. What is the difference between a junction box and a pull box? Pull box does not contain any joints

5. How is the size of a pull box determined? Size of raceway and type of pull

6. What factors must be determined when ordering a pull box? Suitable for location, sufficient size, recessed or surface mounting, and factory knockouts or not

7. What is a support box for large conduits? Junction box with insulating supports to take the strain off the conductors

8. When are splitter boxes installed in conduit runs? Where conductors are reduced in size and split off to various points

9. What type of lug is typically installed in a splitter box? Insulated terminal block

10. What factors must be considered when ordering a splitter box? Voltage, current, number of terminals, and size of the box

11. What is a geared pipe threader? Large threader with a gear drive that can be operated manually or by a power vice
12. What is a factory bend and when are they used? Uniform pre-made bend used when only a few are required and it does not warrant setting up all the gear to do it yourself.

13. What are the two most common types of benders for large PVC conduit? Propane with rollers and propane immersion.

14. Which bender for large PVC conduit heats the pipe indirectly? Immersion.

15. What precaution should be taken when using an immersion-type bender for PVC conduit? Wear insulated rubber gloves.

16. What is a mechanical bender? Mechanical ratchet-type bender.

17. What are the main advantages of a mechanical bender? Easier than hand bending, faster than hydraulic bending, multiple shoe sizes, and built in degree scale.

18. What are three common methods of compressing hydraulic fluid? Hand pump, foot pump, and motor.

19. What is the main difference between attachments for bending EMT conduit and rigid metal conduit? EMT has more support for the walls to prevent kinking.

20. What are two advantages of the electric powered bender? Very fast acting and easy to use (degree scale).