# Before the gas pilot ignites, the:

1. low-water cutoff must be checked
2. gas pressure must be at least 10 psi
3. furnace must be purged
4. oil pressure must be at least 50 psi
5. the boiler vent valve must be 50% open

# Boilers supported from the top:

1. are mostly package boilers
2. are free to expand vertically
3. can only be used on small units
4. are usually not of the large water tube type
5. can only use straight tubes

# Handhole and manhole openings:

1. permit inspection, cleaning, and repairs
2. require a cast iron reinforcing ring
3. have their long axis, lengthwise along the shell
4. are not required on low pressure hot water boilers
5. are required on high pressure boilers only

# Head-to-drum circumferential joints are usually:

1. double welded butt joints
2. single welded edge joints
3. fillet welded corner joints
4. double welded tee joints
5. fillet welded lap joints

# If valves are located between the boiler and water column on a Low Pressure Boiler, they must be:

1. locked or sealed open
2. regular globe valves
3. steel and rated at 300 psi
4. protected against accidental opening

Answers 1=c, 2=b, 3=a, 4=a, 5=a