  Gears:  Different types ( helical, spur, straight) and their uses, proper lubrication of and trouble shooting

                                Hydraulic systems:  basic components ( cylinders, accumulators, valves, pistons) and how they work

                                Pneumatic systems: basic components ( cylinders, accumulators, valves, pistons) and how they work

                                Pumps: Positive displacement and centrifugal ( look more at the positive displacement ones, as there are WAY more of them here in the plant)

                                Oils / Hydraulic fluids: Basic properties and common uses

                                Belts / Pulleys / Sheaves: Look at the basics

                                Pump  and Pump/Motor alignments: know the different ways the alignment can be off ( your Dad can help with this)

                                Blueprint reading: know where to fine the legend, where to find tolerances, the generic names for the basic parts of a print

                                Metric system and conversions to/from English

                                Basic Electrical – flow of electrons, AC vs DC, Ohms (conductivity), basic use of a Multimeter ( Fluke)

                                SAFETY – look at Lock Out/Tag Out – and Machine Guarding ( another Topic that Dad can help with).