

## **MIG (GMAW) Training Outline**

- I Student Introductions (experience) and set class goals (results)
- II Discuss the many different Welding Variables and list them
- III Basic Electricity (Volts, Amps, Watts, and Resistance)
- IV GMAW Fundamentals and Mode of Transfer  
Video-“Mig Welding Made Simple”
- V Eleven indicators for puddle control and bead profile
- VI Basic Metallurgy and Electrode Specifications
- VII Distortion Control and Cracking
- VIII Defects, Inspection, and Final Product
- IX Hands on welding in the Welding Lab --- Each student will have time to weld while being coached and supervised to insure that everyone understands the fundamentals required to make quality welds. Prior experience is very helpful in this class but beginners will gain the knowledge, understanding, and techniques needed.

## **TIG (GTAW) Training Outline**

- I Student Introductions (experience) and set class goals (results)
- II Discuss the many different Welding Variables and list them
- III Basic Electricity (Volts, Amps, Watts, and Resistance)
- IV TIG torch components, tungsten types and sizes
- V Torch and filler manipulation for puddle control and bead profile
- VI Basic Metallurgy and Electrode Specifications
- VII Distortion Control and Cracking
- VIII Defects, Inspection, and Final Product
- IX Hands on welding in the Welding Lab --- Each student will have time to weld while being coached and supervised to insure that everyone understands the fundamentals required to make quality welds. Prior experience is very helpful in this class but beginners will gain the knowledge, understanding, and techniques needed.