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of the basic things you need to know about the learning process and the tools you are going to need mastering welding as a beginner as i said takes time and effort like every new skill participants will learn the basic science and practical application of the most commonly utilized welding processes along with other essential topics including welding terminology weld design welding safety electrical theory the weldability of metals and welding quality control welding basically involves joining together two pieces of metal by heating them until they re molten so that they solidify as a single unit unlike other reversible ways of joining metal together this bond can t be broken easily which is why it s commonly used for many industrial purposes such as automotive space oil and gas metal articles what is welding welding is a fabrication process of joining metals together using heat there are many different kinds of welding oxy acetylene gas welding arc or stick welding metal inert gas mig 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