

Welding for the Product Design Engineer

Course can be tailored to fit a particular industry segment

Fundamentals of welding

2 day course – Class room

Introduction to weld processes, advantages, limitations, cost aspects, cycle times, applicability, heat inputs and heat flow, process stability issues in large volume manufacturing

Weld specifications and test methods

US and International specifications, advantages and limitations

Metallurgy of common materials welded

Metallurgy and welding of steels, stainless steels, aluminum alloys, magnesium alloys, high temperature materials, dissimilar material combinations, weldability testing,

Fitness-for-purpose of weld structures

Heat-affected zone properties, residual stresses, distortion, fatigue and corrosion applications

