Steel Manufacturing & Process Troubleshooting

TW105

Course Overview:

in this course you will apply proper techniques and procedures on design, inspection, maintenance and durability of steel structures, also we will Identify the properties of steel and the tension members, also to Enumerate the various types of structural fasteners and emphasize the common welding processes used in steel structures.

Course Objective:

-Get A Full Understanding Of Steel And Its Applications
-Recognize the scope of the compression members and explain the features and functions of laterally supported beams
-Discuss torsion, lateral-torsional buckling of beams, continuous beams and plate girders and employ their practical application in steel structures
-Determine the types of connections used in steel structures and differentiate braced and unbraced frames f Implement the methodological practical applications on structural steel and bolting inspection
-Carryout the maintenance procedures of steel structures and emphasize the sustainability of steel-framed buildings
-Employ the different approaches used in maintaining the durability of steel structures

Course Outline:

-Steel Manufacturing
-The Various Processes Such As Steelmaking
-Hot Rolling & Post Rolling Processes
-Method Of Steelmaking Particularly
-The Iron Production From Ore
-Conversion Of Iron To Steel And Continuous Casting
-Understand The Procedure On Recycling Scrap For Liquid Steel Production
-Improve Hot Rolling Process Of Flat & Long Products And Recognize Its Importance
-Identify The Different Post Rolling Processes
-Process Troubleshooting Of Steel
-Common Defects Including Chemistry Defects, Casting Caused Defects
-Rolling Defects And Post Rolling Induced Defects
-Compare The Performance Of Non-Destructive & Destructive Testing Of Products And Be Able To Know The Importance Of Product Testing

Who Should Attend:

This course is ideal for iron and steel industry production personnel such as managers, engineers, superintendents, supervisors, foremen and senior technicians. Further, the course is suitable for equipment and materials suppliers to the steel industry, steel marketing and sales personnel, machine shop personnel, quality control technicians and supervisors, and component designers and engineers.

Training Language:

EN / AR

Training Methodology:

-Presentation & Slides
-Audio Visual Aids
-Interactive Discussion
-Participatory Exercise
-Action Learning
-Class Activities
-Case Studies
-Workshops
-Simulation