

Course Name - Materials Welding**- Course Schedule -****Sector : All Total time : 25 Hrs**

Sr. No.	Topic	Duration	Domain	Discipline/ Field	Objective
1	Engineering Materials & Material Classification	0.5 Day	Gen. Engg.	Material	Awareness about materials around us
2	Engineering Materials Iron & Steel making	0.5 Day	Gen. Engg.	Material	Awareness about Iron steel making in industries.
3	Engineering Materials Manufacturing Processes	1 Day	Gen. Engg.	Material	Awareness about manufacturing Processes.
4	Engineering Materials Properties of Material & Testing (DT)	1 day	Gen. Engg.	Material	Awareness about material properies & Testing.
5	Alloying Elemets and its effect on Steel	0.5 Day	Gen. Engg.	Material & Metallurgy	Awareness about Alloying Elemets and its effect on Steel
6	Heat Treatment (Type and Purpose)	1 day	Gen. Engg.	Material & Metallurgy	Awarenesss on Heat Treatment being used in industries (Type and Purpose)
7	Corrossion & Testing	1 Day	Gen. Engg.	Material & Metallurgy	Awareness on types of Corrossion & few Testing methods
8	Weldinng - Design	0.5 Day	Mechanical	Welding	Awareness on design aspect of Weldinng
9	Welding - Processes (SMAW, GTAW, GMAW, FCAW, SAW, etc.)	1 Day	Mechanical	Welding	Awareness of Welding - Processes - SMAW , GTAW, GMAW, FCAW, SAW, etc.
10	Welding Metallurgy	0.5 Day	Mechanical	Welding	Awrenesss on metallurgical aspect of Welding
11	Welding Defects cause and effect	0.5 Day	Mechanical	Welding	Awareness on Welding Defects, its causes and its effects
12	Welding WPS / PQR	0.5 Day	Mechanical	Welding	Awarenesss on requirements related to WPS / PQR
13	Welding - Code & Standards (ASME, AWS, ISO/BS/EN etc)	1 Day	Mechanical	Welding	Be aware of Welding requirements in Code & Standards
14	Welding Consumable	0.5 Day	Welding	Welding	Awarenesss on different Welding Consumable
15	NDT (PT) Theory and Demonstration	0.5 Day	Quality	NDT	Be aware of NDT (PT)

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16	NDT (MT) Theory and Demonstration	0.5 Day	Quality	NDT	Be aware of NDT (MT)
17	NDT (UT) Theory and Demonstration	0.5 Day	Quality	NDT	Be aware of NDT (UT)
18	NDT (RT) Theory and Demonstration	0.5 Day	Quality	NDT	Be aware of NDT (RT)
19	NDT Visual Testing (VT) Theory and Demonstration	0.5 Day	Quality	NDT	Be aware of NDT (VT)
20	NDT (PT) Level II	3 days	Quality	NDT	Get Certified as Level II in NDT (PT)
21	NDT (MT) Level II	3 days	Quality	NDT	Get Certified as Level II in NDT (MT)
22	NDT (UT) Level II	10 days	Quality	NDT	Get Certified as Level II in NDT (UT)
23	NDT (RT) Level II	10 days	Quality	NDT	Get Certified as Level II in NDT (RT)
24	NDT Visual Testing (VT) Level II	4 days	Quality	NDT	Get Certified as Level II in NDT (VT)
25	Code & Standards - Materials (Frequently used Standards, ASME, BS, ISO, etc)	1 Day	Mechanical	Material	Be aware of Code & Standards requirements on Materials
26	Safety Awareness Programme	1 Day	Gen. Engg.	Safety	Be aware of General Safety requirements in industries
27	Industrial Safety - Work At Height	0.5 Day	Gen. Engg.	Safety	Be aware of Industrial Safety - Work At Height
28	Industrial Safety - Confined Space	0.5 Day	Gen. Engg.	Safety	Be aware of Industrial Safety - Confined Space
29	ISO 9001 - QMS Awareness Program	1 Day	Quality	Quality	Understand requirement of ISO 9001 - QMS
30	ISO 9001 - QMS Internal Auditor	2 Days	Quality	Quality	Understand Auditing requireent related to ISO 9001

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31	ISO14001 - Environment	2 Days	Gen. Engg.		Understand requirement of ISO14001 - Environment
32	ISO45001 - Occupational Health and Safety	1 Day	Gen. Engg.		Understand requirement of ISO45001 - Occupational Health and Safety
33	Piping (ASME B31.3)	3 days	Gen. Engg.	Mechanical	Understand requirement of Piping
34	Pipeline (ASME B31.4 / 31.8)	3 days	Gen. Engg.	Mechanical	Understand requirement of Pipeline
35	Storage Tanks (API 620)	2 Days	Gen. Engg.	Mechanical	Understand requirement of Storage Tanks
36	Fabrication Tecchnology	5 Days	Gen. Engg.	Mechanical	Be aware of Fabrication Tecchniques
37	Vessel Inspection	5 Days	Gen. Engg.	Quality	Be aware of Vessel Inspection ethodologies
38	AWS D1.1 Structural Steel Fabrickion	3 Days	Gen. Engg.	Mechanical	Understand requirement of AWS D1.1 Structural Steel Fabrickion
39	Refractory Installation and inspection	3 Days	Gen. Engg.	Mechanical	Understand requirement of Refractory Installation and inspection
40	Painting and Coating Inspection	2 Days	Gen. Engg.	Mechanical	Understand requirement of Painting and Coating Inspection
41	Project Management	5 Days	Gen. Engg.	Gen. Engg.	Be aware of Project Management concepts
42	Planning	2 Days	Gen. Engg.	Gen. Engg.	Be aware of Planning process
43	Project Control	2 Days	Gen. Engg.	Gen. Engg.	Be aware of Project Control tools and tecchnique
44	Supply Chain Management	2 Days	Gen. Engg.	Gen. Engg.	Be aware of Supply Chain Management
45	Vendor management	2 Days	Gen. Engg.	Gen. Engg.	Be aware of Vendor management

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46	Vibration Analysis	2 Days	Gen. Engg.	Mechanical	Be aware of Vibration Analysis, causes and remedies
47	Root Cause Analysis	2 Days	Gen. Engg.	Quality	Be aware of Root Cause Analysis
48	Failure Analysis	2 Days	Gen. Engg.	Quality	Be aware of Failure Analysis
49	Construction Material (Civil)	3 Days	Gen. Engg.	Civil	Be aware of Construction Material (Civil)
50	Pipeline (HDPE Liners)	1 Day	Gen. Engg.	Mechanical	Be aware of Pipeline (HDPE Liners)
51	GRE (Vessel / Piping/pipeline)	1 Day	Gen. Engg.	Mechanical	Be aware of GRE (Vessel / Piping/pipeline)
52	5 S	2 Days	Gen. Engg.	General	5 S - Be aware of techniques and implementation
53	Six Sigma	3 Days	Gen. Engg.	General	Six Sigma -Be aware of techniques and implementation
54	Kaizen	2 Days	Gen. Engg.	General	Kaizen - Be aware of techniques and implementation
55	Calibration	2 Days	Quality	Quality	Calibration - Be aware of requirements
56	Metallography	2 Days	Gen. Engg.	Metallurgy	Metallography - Be aware of techniques and usage
57	ISO 17025 (NABL Labs)	2 Days	Quality	Quality	Be aware of requirements of ISO 17025 (NABL Labs)
58	MEP	3 Days	Gen. Engg.	Gen. Engg.	MEP Awareness program
59	Document Control and Management	1 Day	Gen. Engg.	General	Be aware of techniques and implementation
60	Store Management Program	1 Day	Gen. Engg.	Material	Be aware of techniques and implementation

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61	Maintenance Management	1 Day	Gen. Engg.	Maintenance	Be aware of techniques and implementation
62	Scaffolding	1 Day	Gen. Engg.	Safety	Be aware of usage and safety requirements
63	Leak Testing (Hydro/Pneumatic/Helium)	2 Days	Mechanical	Mechanical	Be aware of requirements on Leak Testing
64	Inspection / Quality Control	2 Days	Quality	Quality	Know requirements on Inspection / Quality Control
65	G D & T and inspection of Machined component	1 Day	Mechanical	Mechanical	Be Aware of G D & T and inspection of Machined component
66	Customer complaint / Feedback	1 Day	Gen. Engg.	Gen. Engg.	Be aware of techniques and implementation on Customer complaint / Feedback
67	Risk Management	2 Days	Gen. Engg.	Gen. Engg.	Be aware of techniques and implementation
68	Quality in Project	2 Days	Quality	Quality	Be aware of techniques and implementation
69	Public Speaking	1 Day	Management	Management	Self Development
70	Personality Development	1 Day	Management	Management	Self Development
71	Body Language	1 Day	Management	Management	Self Development
72	Counselling Skills	1 Day	Management	Management	Self Development
73	Effective Communication Skills	1 Day	Management	Management	Self Development
74	Effective Presentation Skills	1 Day	Management	Management	Self Development
75	Global Business Etiquettes	1 Day	Management	Management	Self Development

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Sr. No.	Topic	Duration	Domain	Discipline/ Field	Objective
76	Spirit of Teamwork	1 Day	Management	Management	Self Development
77	Motivation and Influencing Others	1 Day	Management	Management	Self Development
78	Positive Thinking	1 Day	Management	Management	Self Development
79	Creative Problem Solving	1 Day	Management	Management	Self Development
80	Decision Making	1 Day	Management	Management	Self Development
81	The art of Delegation	1 Day	Management	Management	Self Development
82	Coaching , Mentoring and Counselling	1 Day	Management	Management	Self Development
83	Basic Selling Skills	1 Day	Management	Management	Self Development
84	Managing your Time	1 Day	Management	Management	Self Development
85	Asset Integrity	2 Days	Gen. Engg.		Be aware of requirements of Asset Integrity
86	Risk Based Inspection	1 Day	Gen. Engg.		Be aware of requirements of Risk Based Inspection
87	SWOT Analysis	1 Day	Gen. Engg.		Be aware of SWOT Analysis
88	Lesson learned	1 Day	Gen. Engg.		Be aware of Lesson learned and how to implement
89	Interface management	1 Day	Gen. Engg.		Be aware of requirements of Interface management
90	Project Safety Management	1 Day	Gen. Engg.		Be aware of requirements of Project Safety Management

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91	Operation Readiness	1 Day	Gen. Engg.		Be aware of requirements of Operation Readiness
92	Pre Start up Safety Review	1 Day	Gen. Engg.		Be aware of requirements of Pre Start up Safety Review
93	Commissioning	1 Day	Gen. Engg.		Be aware of requirements of Commissioning
94	Information management	1 Day	Gen. Engg.		Be aware of requirements of Information management
95	Concrete Ready mix Design	1 Day	Civil		Be aware of requirements of Concrete Ready mix Design
96	Constructability	1 Day	Gen. Engg.		Be aware of requirements of Constructability
97	SAFOP	1 Day	Gen. Engg.		Be aware of requirements of SAFOP
98	Job Hazard Analysis	1 Day	Gen. Engg.		Be aware of implementing of Job Hazard Analysis
99	Flawless Project Delivery	1 Day	Quality		Be aware of requirements of Flawless Project Delivery
100	Project to Asset Handover	1 Day	Gen. Engg.		Be aware of requirements of Project to Asset Handover
101	Competancy Management	1 Day	Management		Be aware of requirements of Competancy Management
102	VIP (Value Improvement Program)	1 Day	Gen. Engg.		Be aware of requirements of VIP (Value Improvement Program)
103	Process Safety	1 Day	Gen. Engg.		Be aware of requirements of Process Safety
104	On Line Training	Per Hour	Gen. Engg.		NDT, Self Development, Awareness
Note :- One Training Session Maximum 25 Candidate shall be accommodated.				Connect to book your Training:- +91 72929 29357 info@coreehs.com	