

Adonyi Welding Consultants
Website: www.adonyiweldingconsultant.com

Three-Day Structural Steel Welding Fundamentals Seminar

Day 1, February 4, 2010

- 9:00 – 10:00 am Welcome and introductions
- 10:00-12:00 pm Weld related failures: design, material, manufacturing, service. Fatigue, corrosion, when/where to inspect, how to do basic NDE
- 1:00 - 2:50 pm Steel purchasing, cutting and welding processes: fundamentals, safety, techniques, certifications, AWS Standards for supplier qualification
- 3:20-5:00 pm Weld design: symbols, sizing, loading types, elements of fracture mechanics, role of weld defects, NDE fundamentals.

Day 2, February 5, 2010

- 9:00 – 10:50 am Metallurgical notches: choice of materials, welding processes, common defects
- 11:00-12:00 pm More Non-destructive testing: ASNT and other standards, inspector certification, required % inspection/job
- 1:00 - 2:50 pm Applications: understanding drawings, specifications, planning, supplier certification, inspection standards, legal issues
- 3:20-5:00 pm Interpretation of AWS/AASHTO codes, PQRs, WPQs, common mistakes, Primary vs. secondary members, Fracture Critical Members

Day 3, February 19, 2010

- 9:00 – 10:00 am Review, quizzes, Q&A
- 10:20-11:00 am Weld cracking: hot-, cold-cracking, etc fundamentals, avoidance, NDE
- 11:00-12:00 pm Case studies, Discussion I, Managerial: contracting, purchasing, Quality Improvement
- 1:00 - 2:50 pm Applications: process and NDE specifications, conflict resolution between contract and STDs
- 3:20-5:00 pm Case studies, Discussion II, Technical: weld orientation, tack welds, post-cutting repairs

Note that the minutes missing are for coffee breaks and lunches. Please call at 903-235-5891 or e-mail in case you have any questions.

Regards,

Yoni Adonyi Ph.D., P.E.