

B.S. in Metallurgical Engineering, University of Oklahoma, 1962

U.S. Navy Training Program TP-6, Nondestructive Testing, USNAD, Concord, CA, 1963

General Dynamics Electric Boat Division training program in radiography and preparation of radiographic shooting sketches for metal castings, Groton, CT, 1964

Metals Engineering Institute Course "Corrosion", 1965

Classroom and on-the-job training in radiation safety and use of radioisotopes: Pearl Harbor Naval Shipyard, 1962-65; Sauder Custom Fabrication, Emporia, KS, 1981, 1986

55 semester hours graduate credit in business administration and quality control, University of Missouri-Kansas City, 1969-74

Metals Engineering Institute Course: "Weld Inspection and Quality Control", 1980

American Society for Nondestructive Testing (ASNT) short course: "How to Prepare a Written Practice for Personnel Qualification and Certification", Dallas, TX, 1983

Zetec, Inc. training program: "Eddy Current Inspection of Non-Ferrous Tubing", Isaquah, WA, 1990

ITI-Qualitek leak testing seminars: N. Conway, NH, 1991; Cambridge, England, 1992; Liverpool, England, 1992; Boston, MA 1993, 1994, and 1995

ASNT short course: "Fiberoptic Sensors", Nashville, TN, 1993

ASNT short course: "Inspection of Tank Floors Using Magnetic Flux Leakage", Dallas, TX, 1995

ASNT short course: "How to Prepare Better NDT Certification Examinations", Houston, TX, 1997.

ASNT short course, "Artificial Neural Network Techniques for Nondestructive Evaluation", Pittsburg, PA, 1997

ASNT short course; "Selection of Components for Radiographic Systems", Pittsburg, PA, 1998

ASNT short course: "Surviving an NDT Audit", Pittsburg, PA, 1998

ASNT short course: "How to Get the Most Out of Your Nondestructive Testing Audit", Indianapolis, IN, 2000

ASNT short course: "Ultrasonic Weld Inspection", Indianapolis, IN, 2000

ASNT short course: "Cost of Quality – A Rigorous Justification for Nondestructive Testing", Indianapolis, IN, 2000

ASNT seminars: "Digital Imaging", Mashantucket, CT, 2001 and 2002

ASNT short course: "Thermographic NDT, Orlando, FL, 2003

ASNT short course; "Computed Tomography Principles", Orlando, FL, 2003

ASNT Short course, "How NDT Fits into the ISO 9000-2000 Quality Standard #4523", Pittsburg, PA, 2003

Certified as Radiographer, Inspector and Nondestructive Test Supervisor (RT, UT, MP, PT) per MIL-STD-271, MIL-STD-4510 and NAVSEA 250-1500-1 by Pearl Harbor Naval Shipyard, 1963-65

Certified as Level III (RT, UT, ET, MP, PT) by the American Society for Nondestructive Testing, 1977-present. Certificate No. OB-731

Certified as Level III (RT, UT, MP, PT) by Sauder Custom Fabrication, Emporia, KS, 1980-present

Member of the American Society for Nondestructive Testing Certification Management Board, 1995-98