

Frances J. Mika, CQE, CQA

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PROFESSIONAL EXPERIENCE

FISHER DYNAMICS, St. Clair Shores, MI
2005

May 2002 to Jan.

LEAD PRODUCT ENGINEER/METALLURGICAL ENGINEER

Performed activities associated with the planning, development, building, testing, releasing and production follow-up of seating mechanism products including (but not limited to) the following activities: Conducted effective verbal/written communications with customers, suppliers, and colleagues; tested and implemented engineering change proposals to enhance product performance; reviewed/revised DFMEA and engineering drawings as needed; interacted with design staff and manufacturing plant personnel to support the above activities; functioned as group advisor on metallurgical issues, especially those related to the heat-treatment/materials selection; traveled locally and cross-country as needed to support the above activities.

TRW CHASSIS SYSTEM, Livonia, MI

Dec. 1990 to Mar.

2001 METALLURGICAL ENGINEER /LAB SUPERVISOR

Managed the Materials Laboratory operations for the Foundation Brake Design Engineering Group, including the supervision of technicians, assignment /review/release of test reports, instrumentation selection/maintenance/quality assurance. Performed materials analysis of brake components and prepared subsequent technical reports. Performed and/or led other special technical projects.

- Established lab quality system and compiled documentation as required by QS 9000. (One minor noncompliance identified in four successive audits)
- Established safety/environmental policy as required by MIOSHA/OSHA
- Selected to represent the Company at monthly customer (DC) meetings regarding warranty issues on brake components.
- Designed and directed a complete renovation of the lab, completing the project on time and within budget and achieving a reduction in turnaround time from three months to five weeks.
- Designed and developed an austempered rotor/drum, which was adopted for production by a major customer.

KELLY SERVICES at GM POWERTRAIN(Livonia Engine Plant), Livonia, MI
1990

Jan. to Dec.

METALLURGICAL ENGINEER

Performed failure analysis of engine components using standard metallurgical test methods, and compiled formal technical reports for same. Conducted analytical testing of coolants and lubricants, (Infrared scans, gas chromatography, viscosity); generated release for plant use.

WYMAN GORDON MIDWEST DIVISION, Jackson MI

Jan. to Dec. 1989

METALLURGICAL ENGINEER

Performed routine metallurgical test on induction heated components, including microhardness, microstructure evaluation, and fatigue testing. Monitored the quality control of (six) Magnaflux machines. Reviewed and released materials certifications. Performed tests and compiled control charts and implemented changes to coolant/lubricant systems to an acceptable level of control, supervised dumps/re-charge of central coolant systems. Acted as liaison between management and UAW Safety Committee.

AETNA INDUSTRIES, INC., Center Line, MI
METALLURGICAL ENGINEER

July to Dec. 1988

Organized metallurgy lab, including selection of test methodologies and equipment. Performed mechanical testing of metals. Developed laboratory policy/procedures in compliance with ASTM standards. Acted as liaison between QA Department, vendors, and/or customers, reviewed and released materials certifications.

PCC AIRFOILS INC., DOUGLAS DIVISION, Douglas, GA
1988

Aug 1987 to Feb.

METALLURGIST

Developed lab procedures, performed vendor audits, investigated test bar failures, reviewed and addressed engineering changes pertaining to materials, reviewed and released materials certifications, supervised lab in absence of manager.

EDUCATION and TRAINING

Eastern Michigan University, Ypsilanti, MI

Master of Science, Quality Science (Anticipated date of graduation: Spring 2005)

Coursework completed.

Advanced Statistical Process Control	Geometric and Surface Tolerance (GD&T)
Design of Experiments (DOE)	Advanced Design of Experiments
Quality Auditing	Reliability
Research Methods	Advanced Quality Planning
Human Aspects Of Continuous Improvement	Lean Practices
Total Quality Management	Measuring Customer Satisfaction

Western Michigan University, Kalamazoo, MI
Bachelor of Science, Metallurgical Engineering

Aug. 1987

Macomb County Community College, Warren, MI
Associate Degree, Metallurgical Science
1983

Dec.

ADDITIONAL TRAINING

Value Stream Mapping Kaizen (Six Sigma Institute)
Lean Manufacturing (Six Sigma Institute)
Kepner-Tregoe Problem Solving & Decision Making (Kepner-Tregoe)
Quenching Of Metals (ASM International/SAE Detroit)
Microsoft Project (New Horizons Learning Center)
Internal Laboratory Audits (American Association for the Accreditation of Laboratories, A₂LA)
Quantitative Characterization of Microstructure (American Society For Metals)
Aluminum & Alloys (American Society of Metals)
Dale Carnegie Training

SKILLS

Computer Literacy, (Word, Excel, Statgraphics, Microsoft Project), Proficient in Materials Testing, Technical Writing, Laboratory Auditing, Recruiting and Training Laboratory Personnel

CERTIFICATIONS

Certified Quality Engineer (CQE)
Certified Quality Auditor (CQA)

PROFESSIONAL AFFILIATIONS

Member of American Society for Metals (ASM) and American Society For Quality (ASQ)