

James E. Kasper

objective

Self motivated problem-solver, well versed in computers and new technology seeking a challenging position that would use strong creative abilities to develop methods to comply with ISO9001 standards, while minimizing downtime. Possess effective communications skills to ensure proper standards and processes are met. Creative mind and ideas allow for strong problem solving abilities and the ability to think out of the box.

qualifications

I have been working in the heat treat industry for 10 years. I started from the ground up operating, then repairing furnaces. I started learning process controls and certifications. I have studied thermal and fluid dynamics online.

I currently work for an ISO9001 certified gear manufacturer in the heat treat department and I am familiar with AMS2750D requirements.

I have designed, installed and operated furnaces that operate between 300°F - 2000°F with Endothermic gas used during carburization processes.

I design both the electrical and mechanical components. I designed the computer layout and control room equipment for the latest upgrade of the facility.

Furnaces are monitored and data-logged as required. Temperature uniformity surveys are done semi-annually and maintenance is carried out efficiently with proper record keeping to meet and/or exceed those requirements of ISO9001.

Employment

Brad Foote Gear Works - Pittsburgh, PA
December 2004 - Currently Employed
Heat Treat Maintenance

Repair and upkeep of cranes, endothermic generators, furnaces, computers, carbon analyzer and all other equipment in the heat treat department.

I also have repaired lathes, grinders, mills and other electrical issues in the entire plant.

I am responsible for the record keeping, testing, temperature uniformity surveys, certifications and all other aspects of the AMS2750D requirements to meet ISO9001 standards.

I was very involved with creating and filling 2 separate basements, each 30ft x 60ft x 12ft deep, with production equipment.

- Excavating framing and pouring concrete.
- Reverse-engineered/designed 8 large pit furnaces.
- 10,000 gal wash tank and a 35,000 oil quench tank.
- Electrical schematics and plumbing schematics for the {additive air/natural gas/endothermic gas} system used in carburizing.
- Gas train for the burner system.
- Re-engineer the recuperative exhaust gas system do to size and space requirements.
- Created a spreadsheet with a to-do list from start to finish on each furnace to distribute work and ensure job completeness.

Team Industries Inc. - Pittsburgh, PA

August 2004 - January 2005

Field Technician

In August 2004, Cooperheat/MQS was acquired by Team Industries Inc.

Cooperheat/MQS - Pittsburgh, PA

February 2004 - August 2004

Field Technician

Traveling to perform work on-site for power plants, steel mills, fabrication shops, foundries, glass making companies etc.

Using electric heating elements, applied heat to pipes and other areas of metal according to MIL specifications to aid in the preheat and post weld stress relief as required for new fabrication and repair work as well.

Using natural gas, propane, or heating fuel to aid in the drying process of ceramic insulators in furnaces or ladles. To assist in preheating furnaces or ladles. To melt and remove metal that has solidified due to unforeseen incidences in specially made train cars used for the transportation of molten metal and in furnaces or ladles.

Using non-destructive testing to check for cracks, fissures and other structural defects in steel vessels and many other items through use of ultrasound, x-ray, and electromagnetism using ferrous dust and chemical solutions.

In shop electrical repair on testing equipment like the capacitive discharge units used to apply thermocouples, portable magnets, black lights, controllers etc. In house calibration of all testing equipment (mostly chart recorders and controllers).

I designed and fabricated a 12 unit source for the electrical heating pads. It had 12 individual controllers a 24 point chart recorder and communication to control additional units as slaves.

Flame Metals Processing Corporation - St. Louis Pk., MN

June 2000 - February 2004

Furnace Operator

Responsible for the parts to be fixtured into loads and then into internal quench style batch furnaces and tempering furnaces for carburization, carbonitriding, annealing, normalizing, aging, tempering, stress relief etc. Parts to be repackaged as received. Process documents followed carefully.

Aces Custom Installs - Minneapolis, MN

August 1995 - February 2004

Owner

Design, install, test and repair of audio, video and security for both the home and automobile. Several of my design installations won awards for both sound quality and SPL at various competitions.

Hodgman Handyman Services - Coon Rapids, MN

June 1997 - June 2000

Handyman

General repair and small upgrades for residential areas in the entire Twin Cities metro area.

Education

To be honest I am mostly self educated and I have learned a lot from Wikipedia, Engineering Toolbox, and searches with Google. I have been thinking about taking some online courses but am not sure specifically whether they should be in metallurgy (my thoughts at the moment) or in thermal dynamics or something similar.

Dunwoody Institute - Minneapolis, MN

September 1996 - March 1998

Electronics Technology

Associates degree applied science (unfinished)

Roosevelt Sr. High - Minneapolis, MN

September 1988 - June 1993

Electronics

Automotive repair

Welding

Math (calculus)

Graduated (h.s. diploma)

REFERENCES

References are available upon request.