

WELDING PROCESS EVALUATIONS

Our analytical tools and expertise. Your savings.



**A closer look at your welding process. Solutions for improved cost efficiency.
You'll find it all at Airgas.**

Making every facet of your welding and cutting operations as efficient as possible can make a significant contribution to your bottom line. That's why Airgas has a nationwide team of welding process specialists prepared to help you improve your productivity, your weld quality, and most importantly, your cost efficiency. Our comprehensive welding process evaluation will pinpoint exactly how your weld process can be improved—and what bottom-line results you can expect. With Airgas welding process evaluations, you benefit from the tools and expertise that will maximize your weld quality and your profitability.

Your current welding process is costing you more than it should. Airgas will show you where.

Using proven methods and tools for evaluating welding processes, we'll show you how to become more efficient and reduce costs. Evaluations cover:

- Weld size
- Joint design and fit-up
- Deposition rate
- Weld reject rate and rework
- Operating factors
- Work cell efficiency
- Weld quality and appearance
- Gas management control
- Gas mix composition
- Gas package and distribution
- Process selection and procedures

Your welding process also may be yielding overwelding or underwelding. If so, you may be wasting valuable resources or not meeting customer specifications and weld codes. That's why we make sure every detail is analyzed to its capacity and formulated into a comprehensive cost efficiency analysis covering your entire welding process.

Airgas doesn't just identify the problems. We provide the solutions.

We'll help you determine the best solutions for your welding process. Solutions that are appropriate for your business. We'll show you how:

- Changing your gas or incorporating a shielding gas may significantly increase weld quality and lower costs
- Changing your welding wire or adjusting your wire feed speed may increase productivity and profitability
- Replacing or adjusting your welding machines may create a more optimal weld environment
- Switching welding processes may make a meaningful difference to your welding performance

We'll also help you write or rewrite your Welding Procedure Specification (WPS) and then assist with your Welding Procedure Qualification Record (WPQR).

All from a dedicated team of welding process specialists.

Airgas welding process specialists dedicate themselves to being the best in the business, which is why they've developed a curriculum to constantly update their own skills. Many carry the title of Certified Welding Inspector (CWI) and/or Certified Welding Educator (CWE), and all have accumulated years of experience under the hood. Just call your local Airgas representative and our welding process specialists can start working on improving your welding process and maximizing your cost-efficiency.

Improving productivity and quality.

Ferris Industries, a manufacturer of walk-behind and riding lawn mowers, asked Airgas to recommend specific welding procedures and techniques to help them improve their mower products.

“If you think there's a better way to do something, there probably is. If you're not sure, don't hesitate to invite a specialist in to observe your process. Sometimes you just need another set of eyes. Airgas showed us how changing our shielding gas improved the look of our parts, increased wire feed rates, and improved productivity and quality.”

Tim Andrecheck
Welding Engineer

Becoming more efficient.

Elkay manufactures many of the stainless steel sinks sold in home centers throughout the country. They noticed inefficiencies in their manufacturing process as polishers were waiting for the fabrication group to keep them supplied with sink bowls. In an effort to improve welding production, Elkay contacted Airgas.

“Airgas helped us increase our welding speed, which translated into an additional 42 sinks per day, along with a slight reduction in rework and scrap. Now we have no problem keeping the line full, from fabrication through polishing. We're so much more efficient, it's like having an additional welding line.”

Bob Dvorak
Quality and Process
Control Engineer

The right location. The right product. The right expertise.

For more information visit us on the web at www.airgas.com, or call 800-255-2165.

Airgas

You'll find it with us.