

When “close” isn’t
good enough



Education Services from
Advanced Sealing
can make the
difference





Advanced Sealing

Advanced Sealing... It's more than just our name - it's the goal we help each of our clients to achieve, and the standard that defines our every objective.

Since our inception in 1988 we have lived by one simple mantra - "Let's do it better." That drive to reach new levels of sealability - to further throttle fugitive emissions - has made us the premier sealing house for those looking for new solutions to old problems.

Our commitment to stay abreast of the latest developments has made us experts on difficult applications, and has brought us a loyal clientele from around the world.

Today we are a full-spectrum supplier and manufacturer of gasket and sealing products to the nation's most critical industries and the most demanding applications, manufacturing our products both domestically and internationally.

Education and Training



Advanced Sealing has a passion to bring our knowledge and expertise to our clients, and has developed training programs in all our major disciplines.

Whether teaching a small group of valve service technicians or a large class of refinery engineers, our goal is always to help our clients understand the essential skills that will result in improved sealing performance.

Our speakers and trainers have been invited to bring our unique perspective to major industry events such as the International Sealing Distributors, National Association of Corrosion Engineers, Fluid Leak Management Users Group and the National Petrochemical and Refiners Association.

As long-term partners and collaborators with Chevron, we have the latest information on the materials and procedures they have developed to achieve the lowest emission rates in North America. We have trained groups both domestically and internationally on Chevron's system, and have even done training at Chevron's own refineries at their request. We can bring you up to speed on the latest materials and procedures for sealing difficult:

- heat exchangers
- pipe flanges and
- valves - including the latest developments in the control of fugitive emissions.

We can train on-site or via the web. Our training can be geared toward various audiences, including Maintenance, Inspection, Reliability and Engineering.

Big or small - domestic or international - we look forward to working with you.



Want some extra yardage in your maintenance game?

Subject Matter Expert

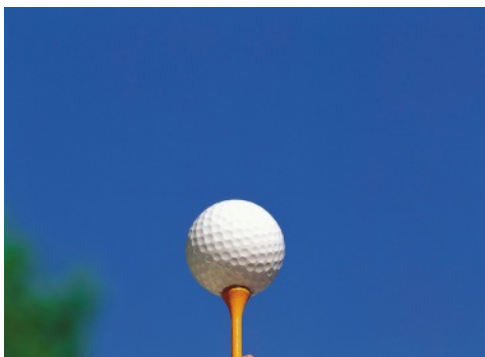
Changes to a maintenance system - or even just to maintenance procedures - meet resistance. Our experience shows that large changes are only effective when there is a dedicated Subject Matter Expert (SME) with management backing to drive the changes. This person serves as the local expert and enforcer.

In addition to our routine training, we offer SME training at our facility in Cerritos, California, offering advanced insights into material specification, manufacturing requirements and quality control. New SME's are introduced to experienced SME's in the same industry.

Specifications

Dread the thought of rewriting your specifications?

We have developed specification templates for heat exchangers, standard pipe flanges and valves that can be used to model the changes you need to make in your plant specifications. As part of our comprehensive training services, we would be happy to provide these for you - and will review your revised specifications.



Training to tee off from...

Our training expertise can help you drive the changes you need - faster and more comprehensively.

Exchanger Analysis and Review

For a nominal fee, we can undertake a complete review of all your Shell and Tube exchangers, outlining the changes needed to bring them into compliance with a world-class sealing standard. You will receive individual reports on each exchanger as analyzed by our **Exchanger Gasket Workbook**. These reports will make recommendations on nubbin removal, gasket type, gasket size, bolting torques and bolting procedures for each of the exchanger body joints.

Update your exchanger specifications for your whole refinery, or unit-by-unit, as service work is required.

Delay will cost you money!

By taking advantage of our experience and knowledge you will dramatically reduce your implementation timeline. Not only will this help you improve your plant's reliability, it will also enable you to reduce your maintenance costs almost immediately. Chevron's implementation of improved materials and procedures produced the following verifiable cost savings:



- Reduced heat exchanger service costs. Exchanger leaks can necessitate shorter service intervals. One planner revealed that nearly 30% of the exchangers he would service in a shutdown were only on the list because they were leaking – not because they had reached their mandatory service intervals.
- Clamp elimination. Chevron El Segundo used to clamp 4 – 5 exchangers per year with custom clamps that routinely cost \$50,000 each. They also eliminated the loss-of-production slowdowns that cost Chevron as much as \$200,000 per event. The complete elimination of exchanger clamping since 2002, has saved Chevron El Segundo more than a million dollars per year in direct and indirect costs!
- Reduced heat exchanger gasket costs. Quite unexpectedly, Chevron has found that the improved heat exchanger gaskets are actually less expensive than the double-jacketed gaskets which routinely fail. The cost reduction in their Hawaii refinery was more than 50%!
- Reduced cost for emission-control valve stem packing. The newest valve packing has reduced their packing cost by 37%, and has a guaranteed performance of under 50-ppm for 10 years!



Of course, the things that cannot be measured may be of even greater value. What is it worth to know that your plant can go through a major power blip and come back on line with no leaks? How much is it worth to provide your personnel with a safer work environment? How much is the Public Relations worth when you eliminate leaks and slash emissions?

Whatever value you place on these things, we can help you achieve them.

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