



**Swagelok Northern  
California Training**

**Swagelok**

Swagelok Northern California

# VCR<sup>®</sup> Face Seal Fitting Installation Seminar

- Brush up on welding procedures and precautions
- Review installation in ultrahigh purity systems
- Get several useful reference materials
- Get items that simplify fabrication & bending
- Earn the Certificate of Completion

Sales & Service Center: 3393 W Warren Ave Fremont, CA Phone: 510.933.6200 Web: [northerncal.swagelok.com](http://northerncal.swagelok.com)



# VCR® Fitting Installation Seminar

A formal Swagelok training program brought to you by Swagelok Northern California

The applications and the fluids contained by VCR fittings are some of the most demanding in industry. The fitting must maintain a leak tight seal on the most toxic, corrosive and flammable fluids – even after reassembly. Repairs have to be quick. With the expertise gained in this course, you will be able to optimize the VCR fitting.



90 minute lecture-lab



Swagelok®-certified instructor



Discussion + hands-on exercises



Swagelok® Certificate of Completion



Reference materials



Job aids that simplify fabrication



Tasty lunch

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## Who can benefit?

- Fabricators, contractors and technicians
- Engineers and draftsmen
- Quality control personnel
- Safety engineers

System fabricators, contractors and technicians will benefit from the hands-on installation exercises. Engineers and draftsmen will have a better understanding of how the fitting functions, its strengths and its limitations. Anyone who specifies or purchases high-purity gas system components will find the class informative.

## Specific topics covered

- Key design elements of face seal fittings
- Proper welding procedures and precautions
- Considerations with ultra-high purity systems
- Installation techniques that extend fitting life
- Common installation errors
- Troubleshooting exercises
- VCR gasket types, options and usage

## Hands-on exercises

- Determining exact length of tubing needed
- Time-saving fabrication techniques
- Use of expansion loops and off-sets

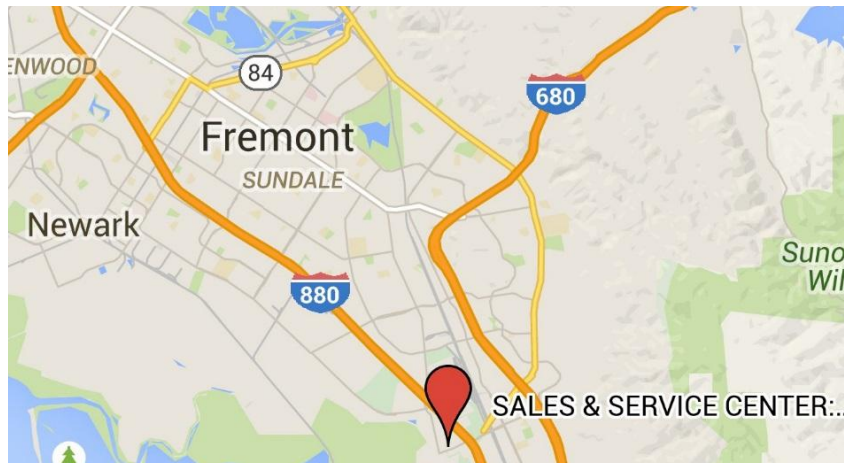
# Class Location & Fees

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## Class location

Unless otherwise noted, classes are held at 3393 West Warren Avenue in Fremont, CA.



## Fees

- \$299 per attendee

[DATES / REGISTRATION ►](#)

Interested in hosting a course at your facility? Please contact Jeff Hopkins at 510.933.6200.

# Additional Resources

Available from Swagelok Northern California



Custom Solutions



Swagelok Northern California

Fittings Catalogs



# Additional Resources

Since 1947, Swagelok Company has designed, developed, and manufactured high-quality, general purpose and specialty fluid system products. Today Swagelok is a \$2 billion (USD) company with a global network of sales and service centers supporting customers in 70+ countries. Swagelok Northern California is the sales and service center serving 58 counties in California and Nevada.



## “Unexpected speed”

"A pleasure to work with. Totally unexpected speed. They were able to ship it that day within just a few hours. A company where customer service is still done right."

JONATHAN P., Oakland, CA



## 99% ship to promise

We ship over 1 million parts per year and have a 99% ship-to-promise track record. Order from 600,000 individual part numbers for fittings, hoses, regulators, tubing, valves, and more.



## Quick response

If you work with critical gas or liquid applications, we want to make doing business easier for you. [Please get in touch](#) — we respond fast! Or give us a call: 510.933.6200.

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