



# Refinery Safety Training

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Valin is pleased to offer the following courses on safety training for refineries.

## **Instrument Tube Fitting and Tube Bending Course (1-1/2 Hours, 15 student minimum)**

This instructor led course is the refinery standard suitable for Instrumentation and Electric and Machine Shop personnel and contractors. This hands-on course will teach the proper make up, remake, safety and troubleshooting the compression fittings. The course will also teach the proper means of bending tubing and the principles of proper stainless steel tubing preparation, measurement, and cutting saving your company time, money, and labor. This course is a great refresher for the seasoned veteran and a must for new personnel installing instrumentation lines and hook-ups. Successfully trained students will receive a certificate of completion and pocket size Safety Guide to refer to when they have “best practices” questions in the field.

## **Instrument Valve Safety Course (1 Hour, 15 student minimum)**

This instructor led course is designed to train Instrumentation and Electric, Machine Shop and Mechanical Engineering personnel about the types and details around Instrumentation Valves. Specification training covering pressure, temperature, flow, and materials compatibility are emphasized. Actuation, communications, indication, and packing selection are taught.

## **Filtration (1 Hour, 15 student minimum)**

This instructor led training and safety course is designed to train Instrumentation and Electric, Machine Shop, Field Maintenance, Contractors and contamination engineering filtration process and principles plus the proper methods of filter change outs and procedures. This course may be taught in a class room or field environment. All Major Filter manufacturers will be covered and identified for Liquid, Air and Gas:

### **A. Vessel Certification for Jet Fuel Process:**

This certification consists of identification of Vessels with filters for Jet Fuel service, API/IE certification reports, retagging vessels to meet current edition, updating tags covering new certification, vessel inspection for any changes in process or wear and review current change-out procedures.

### **B. Vessel Identification with current process filters:**

Inspect the current operating vessels with the filters used to determine that it meets the current requirements, flow rates, min/max viscosities, micron retention requirements, temperature and particle distribution.

### **C. Safety course on proper preventative issues for filters and filter vessels:**

Review filters self-life, critical usage, changes in current procedures, seals, gauges, valves and fittings for environmental emissions.



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## **Fugitive Emissions Level 1 (1 Hour, 15 student minimum)**

This instructor led training and safety course is designed to train Instrument and Electric, Machine shop, Pipe Fitters, Field maintenance, contractors, and mechanical engineering personnel the rules and regulations, typical source leaks, and valve packing and connections that contribute, cause, and are directly involved in the fugitive emissions issue in a refinery environment. Students will know approved components, technology, and preventive methods used to meet California Air Resources Board standards AB32 and AB375.

## **Gauge Safety Seminar (1 Hour, 15 student minimum)**

This instructor led training and safety course is designed to train Instrument and Electric, Machine shop, Pipe Fitters, Field Maintenance, contractors, and mechanical engineers the seven main problems with pressure gauges. The students will be trained to identify and handle refinery pressure gauges experiencing vibration, pulsation, temperature, Over-Pressure/pressure spikes, corrosion, clogging, mishandling and abuse in process conditions that could save thousands in machine, process, and failure emergencies, as well as gauge terminology, pressure gauge basics, design limitations and a discussion on Best Practices applications/installation considerations.

## **Real Time Pipeline Emergency Flow Shut-Off Solution Training (1 Hour, 15 student minimum)**

The certified instructor will train Mechanical engineering, Instrumentation and Electric, Machine Shop, Pipe Fitters, Health, Safety and Environmental, personnel the proven solution to shutting off emergency pipeline breaks in today's refineries resulting in immediate savings in lost product and capital equipment. This OSHA approved product will save the refinery tremendous insurance costs and fugitive emissions and legal fines for lost product to atmosphere due to an emergency pipeline break. Field adjustability, sizing, OSHA approval specifications and liquid and gas applications will be taught.

## **Lube Oil Contamination Seminar (1 Day, 15 student minimum)**

This instructor led course is designed to train Machine Shop and contractor personnel how to design, implement, and build a world-class lubrication program that will remove contamination and harmful practices in refinery lube oil environments. With proper lubrication most, if not all, corrosion of internal machine parts can be eliminated. This one day course is designed to identify and train refinery personnel in the correct lubrication safety and best practices.

## **Process Heating Geared to Technicians and Applications Engineers (2 Hours, 15 student minimum)**

This certified instructor led training is designed for technicians and refinery applications engineers who will learn system design, sizing, heat loss and calculation for refinery process heating. Process heating controls, installation and start-up. In addition we have heat trace specific training, this training would include the use of a heat trace program used to calculate heat loss and create a Bill of Materials of components for heat trace solutions. In addition, we have heat trace specific training which would include instruction on a heat trace sizing program used to manage heat trace project and create a Bill of Materials.



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## **Process Heating-Heat Trace-Contractors Hands On (2 Hours, 15 student minimum)**

This certified instructor “hands-on” training is for qualified technicians, contractors, and process engineering personnel in the art of process heat tracing installation, start-up, and Trouble shooting in active refinery applications. Class includes heat trace tools for students to keep.

**For more information, or to schedule an instructor to come out to your plant, please email [valinuniversityinquiries@valin.com](mailto:valinuniversityinquiries@valin.com).**

Class may not be available in your area. Please [email](#) to confirm.

**[REGISTER](#)**

## About Valin

Valin Corporation is the leading technical solutions provider for the technology, energy, life sciences, natural resources, and transportation industries. For over 45 years, Valin has offered personalized order management, on-site field support, comprehensive training, and applied expert engineering services utilizing automation, fluid management, precision measurement, process heating, and filtration products.

COMPLEX TECHNOLOGY MADE **SIMPLE.**

**ISO 9001 Certified**

