

Crude Oil Flow Measurement



Background

It has been found that the generic course incorporates most of the material necessary for the preparation of a client-focused course. However, it will be necessary for METCO to study the client's metering station(s) and procedures so that explanations for client-specific equipment or procedures can be incorporated into the course.

The extent of adaptation will be subject to the client's requirements and the configuration of the metering station. The format of the course can also be adapted to suit specific requirements.

There may be some occasions when a client may wish to delegate a representative to include a short (15 to 30 minute) presentation on company internal policy or procedures.

A client-focused metering course would be based on the generic course and would extensively utilize the existing generic course presentation material except where additional material is required. However, the client's meter station configuration information would be incorporated and the course would be focused on the equipment actually used.

The accompanying manual would have one client-specific module describing the client's metering station, equipment used, and any other relevant information. The remainder of the manual would be the generic 'Textbook on Fiscal Metering'.

If the client's metering station uses any new or unusual instrument, special concept, special calculation routine, etc., which is not part of the generic course, then appropriate information will be added to both the manual and the presentation.

It is sometimes appropriate to make use of the services of an engineer or technician who has detailed hands-on experience with the client's metering station to assist the principle course presenter.

It should be noted that the function and operation of metering supervisory computers (the database) can be very specialized and unique to each metering station. It may not be viable to go into detail on the client's metering supervisory computer and / or platform computer system (or SCADA).

Where can i take the course?

Training courses can be taken at our Aberdeen headquarters in Scotland or at your preferred global facility.

METCO can assist you with finding local accommodation and transportation for any out-of-town candidates who are put forward. Our facility is located within 3km from the Aberdeen airport terminal.

Who should attend?

The course is focused towards the following personnel:

- Maintenance technicians
- Supervisors
- Engineers

A basic knowledge of metering operations or maintenance is necessary for attendance on this course.

Oil flow measurement: What will I learn?

The course is based on the generic oil flow measurement course, addressing the concepts of custody transfer metering, principle of allocation in shared facilities, and the general operating principles of custody transfer instruments:

- Flow meters (orifice, turbine, ultrasonic, venturi, Coriolis)
- Densitometers
- Pressure / temperature / differential transmitters
- Automatic samplers
- BS & W measurements
- Chromatography
- Meter proving and instrument verification / recertification
- Calculation routines and verification of flow computers
- Implementation of international standards
- Generic operating and reporting procedures
- The function of the pipeline and regulatory auditors
- Review of typical fault conditions

We are happy to set up a course to suit your needs and can even customize the modules and training to your exact requirements. Please ask us about our customized client training courses and we will be happy to provide details.

How long will it take to complete?

The generic course is run over two days, scheduled from 0900 to 1700 hours.

Any customized client courses may require alternative timescales to complete.

How much will it cost?

Please contact us for details on the cost to attend this course.

The course fee includes lunch and a copy of the training manual on CD in PDF format.

If you have more than three candidates for one of our pre-organized open courses, we would be happy to offer a discount.

Whom can I contact for more details?

We would be happy to discuss any aspects of your measurement training requirements, be it for one of our generic open training courses, to assessing your metering technicians in the Scottish Vocational Qualification (SVQ) in flow measurement "Measurement Processes (Maintenance) Level 3".

You can contact the METCO Sales Team through email: METCOsales@Emerson.com

How do i book it?

Booking your training course is very easy. Please contact one of our sales team, who will provide you with full joining instructions and payment options.*

How to pay?

Payment for training can be made in advance by:

- Pro-forma invoice
- Pre-approved Nett 30 day credit account
- Credit card



What are the topics covered during the course?

Based on Course 3 – Crude Oil Flow Measurement.

Client-specific modules not covered by the generic course would have to be prepared.

*Subject to Terms and Conditions.



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