

Metering Appreciation for Supervisors



Background

The METCO fiscal metering course is based on a series of standard curriculum that are referred to as generic courses. The generic courses are based upon a modular format.

The structure of the course modules are summarized on page 3 of this document.

Material for this oil and gas flow measurement course has been accumulated over more than 30 years. The course material is continuously being upgraded and expanded to incorporate new and revised methods, techniques or equipment. The generic course assumes that some delegates may require explanations of basic principles so basic first principles are covered. The course also delves into the more complex aspects of fiscal metering. Emphasis between the 'basic' or the 'complex' aspects can be varied to suit the experience of the delegates attending.

It should be emphasized that this training course already incorporates most aspects of fiscal / custody transfer metering and can accommodate most custody transfer metering station configurations. The course presentation material is provided in a PDF format on a course training disk. Selected files may be previewed by the client on any PC.

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?

A basic knowledge of metering operations or maintenance is required. This course is most suited to the following personnel:

- Line managers
- Supervisors
- Engineers
- Commercial analysts
- Hydrocarbon accountants

No specialist metering knowledge is necessary for attendance on this course.

Generic metering appreciation course: What will I learn?

The course delivers an overview understanding of custody transfer flow measurement, together with the basic concepts of metering techniques and the function of flow computers:

- The derivations of reported quantities
- Allocation and reporting procedures
- Overview of shared pipeline and shared production installation allocation
- Operating procedures
- Metering management

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 one day, 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?

The course is similar to the operator course, but gives more emphasis to the overall management of custody transfer metering stations.

The trainer will work with the list of modules overleaf and adapt the course to class experience and requirements.

*Subject to Terms and Conditions.

Course Modules

Activity	Session	Module	Topic	Content
Appreciation	1	Tyro 015	Appreciation introduction	Greetings and introduction
	2	Tyro 025	Why meter?	Focus on monetary implications of hydrocarbon measurements, overview of methods, and definition of terms
	3	Tyro 030	Metering techniques	Layman's guide to meter types and diagrammatic explanation of calculations
	4	Tyro 505	Understanding flow computers	Layman's guide to flow computers and diagrammatic explanation of calculations
	5	Tyro 605	Allocation appreciation	Overview of principles and implications of shared pipeline hydrocarbon allocation, based on North Sea practices
	6	Tyro 620	Metering management	Aspects of managing a fiscal metering station
	<i>Optional</i>	Tyro 800	Choice of meter	Overview description of available meter types with pros and cons
Procedures	7	Tyro 665	The audit trail	The role of meter station auditors
	<i>Optional</i>	Tyro 680	Fault conditions	Guidance on predictable fault conditions and mismeasurement methods



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