

Petroleum Inspector Certification Programme Inspector Training Requirements List

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REQUIREMENTS FOR CERTIFICATION AS AN IFIA CERTIFIED INSPECTOR OF PETROLEUM

The candidate's employer must have completed the "IFIA Petroleum Inspector Certification Programme, Application for Certification" and must verify that all information contained in it is true and correct.

The candidate must present the above Application for review at the time of the examination.

The candidate must take and pass a qualifying examination administered by IFIA. The minimum passing grade is 75%.

IFIA requires the employer to attest that each candidate:

- has been working as a petroleum inspector for a minimum of 6 months and continues to work in this role
- has completed all of the Training Tasks noted in this document
- is conversant with the petroleum inspection guidelines covered by publications such the American Petroleum Institute Manual of Petroleum Measurement Standards Chapter 17, Energy Institute Hydrocarbon Management documents and ISO petroleum measurement standards.
- is aware and conversant with specific health and safety requirements laid down by national, regional or international regulatory bodies operative in the location of normal employment.
- has knowledge of the safety recommendations given in the International Safety Guide for Oil Tankers and Terminals (ISGOTT) latest Edition published by Willerby and Co London.
- has received appropriate training in the use of respiratory apparatus should this be a normal working requirement.
- is qualified to work under such regulations as may be specified locally in the normal place of employment by such bodies as port or customs authorities

and

• has been audited while inspecting a vessel load or discharge operation within the past 18 months.

<u>INSTRUCTIONS</u>

Candidate's employers must ensure that each candidate has completed all of the Training Tasks in the following list. A record of that training must be maintained by the employer and shall be made available for review by independent auditor on request.

When details of training are requested, companies may submit in-house training records (translated into English where necessary), which must show a date and signature to confirm completion of each individual training task.

However, IFIA has published a Training Record Book in electronic format (.pdf) which may be used. This can be downloaded free of charge from the publications page of the IFIA website at www.ifia-federation.org

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HEALTH AND SAFETY TRAINING

Item	
Hazard awareness and reporting, including Stop Work Authorities	
Personal protective equipment	
Sample transportation	
Respiratory protection	
Drug/alcohol abuse awareness	
Static electricity awareness and precautions	
Safety Data Sheets	
Confined spaces awareness	

CLASSROOM TRAINING

Item	
Ethics	
Tank entry procedures and permits	
Wall wash equipment and methods	

FIELD TRAINING

Equipment Calibration	
Gauging tape verification	
Glass thermometer laboratory calibration	
Glass thermometer field check	
PET laboratory calibration	
PET field check	

Use of Gauging Equipment	
Manual gauging tapes	
(for innage or dip and ullage)	
Electronic gauging tapes (PEGDs)	
(for innage or dip and ullage)	
Ullage/Temperature/Interface	
equipment (UTIs)	
Operation of vapour control valves	

Shore Tank Gauging	
Dipping and ullaging	
Electronic gauge tapes (PEGDs and UTIs)	
Converting ullage to innage or dip	
Reference height determination and comparison	
Free water measurement	
Line fill calculations	
Floating roof corrections	
Gauging temperature corrections (tank shell, gauge tape)	

Marine Vessel Gauging	
Manual gauging - open systems	
Manual gauging - restricted systems	
Manual gauging - closed systems	
Using automatic systems	
Gauging moving liquid (rolling vessel)	
OBQ and ROB Gauging	
Use of vessel equipment – checks and reporting.	

Tank Temperature Measurement	
Liquid-in-glass thermometers	
PET/UTI equipment	

Sampling General	
Crude oil	
Refined products	

Manual Sampling Equipment	
Bottle & cage	
Sampling cans/beakers	
Closed and restricted system equipment	
Zone samplers	
Dead-bottom samplers	
Drum samplers	

Automatic Sampling Equipment	
Note: Classroom training is accepted	
for these tasks where local equipment	
is not available.	
Automatic samplers (portable and	
fixed)	
Autosampler sample cans	

Sample Containers	
Types of containers:	
Glass	
Polyethylene	
Polypropylene	
Metal cans	
Autosampler cans	

Manual Sampling Procedures	
Care of equipment while sampling (cleanliness)	
Upper, middle, lower spot samples – position calculation	
Bottom sampling	
Interface sampling	
Tank side tap sampling	
All-levels samples	
Running samples	
Line samples	

Sampling Ships and Barges	
Vessel composites	
Blended cargoes (non-homogeneous)	
First-foot samples	
OBQ-ROB sampling	
Closed and Restricted systems	
Vapour pressure samples	

Sampling Handling	
Sample tags/labels	
Sample receipts	
Transportation documents	
Transportation containers	
Sample segregation	
Sample security	
Sample distribution	

Vessel Loading	
Cargo history	
Non-cargo spaces	
Bunker measurement and sampling	
Sampling shore lines (jetty headers)	
Monitoring min/max cargoes	
Vessel Experience Factor (Load)	

Vessel Discharge	
Collecting load port samples	
ROB/Cargo retention statements	
Vessel Experience Factor (Discharge)	

General Vessel Operations	
Key meeting	
Deck inspection	
Time report/Statements of facts	
Sealing valves/hatches/lines	
Reading drafts	
Letters of protest	
Notice of apparent discrepancy	
Weight conversion factors	
Trim and list correction calculation	
Wedge formula calculation	
Using tank capacity tables	
Calculating cargo quantities	
Documentation	