



IFIA Petroleum Inspector Certification Programme

Inspector Training Requirements List

International Third Edition January 2020

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 TIC Council. The minimum passing grade is 75%.

TIC Council 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.

INSTRUCTIONS

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, TIC Council 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 TIC Council website at www.tic-council.org

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- Manual Sampling Procedures

- Sampling Ships and Barges

- Sample Handling

- Vessel Loading

- Vessel Discharge

- General Vessel Operations

HEALTH AND SAFETY TRAINING

Item	
Drug and Alcohol abuse awareness	
Personal Protective Equipment (PPE)	
Safety Data Sheet (SDS)	
Slips, Trips and Falls	
Confined Space Entry	
Vessel Access (On and Off Shore)	
Working at Height	
Road tankers/ Rail tankers	
Intrinsically Safe Equipment and Static Electricity	
Hydrogen Sulfide and Benzene	
Ergonomics (lifting and carrying)	
Driving and Journey Planning	
Hazard Awareness and Job Safety Analysis (JSA – risk assessment)	
Intervention and Stop Work Authority (SWA)	
Indemnities and waivers	

CLASSROOM TRAINING

Item	
Ethics	
Tank entry procedures and permits	
Wall wash equipment and methods	
IFIA Codes of Practice	

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	