

P·T·I 300-05

Cargo Loading and Securement: Propane Tanks, Cylinders & Equipment



Course Overview

This course has been designed for individuals wishing to learn regulatory requirements and industry best-practices in respect to cargo loading and securement of propane tanks, cylinders and related equipment. While a student may attend an instructor-led training course, this course has also been designed to be led as on-the-job training. The student will also gain initial knowledge through self-study of the course manual followed up with a demonstration of correct procedures by the employer or a P·T·I certified Trainer. In either case, the certification requirements listed below must be achieved in order to successfully complete the course.

Key Learning Objectives

The student will gain knowledge in the following key areas:

- **Overview of Applicable Regulations**
Includes instruction on the various regulations that affect cargo securement such as the North American Cargo Securement Standard, Transportation of Dangerous Goods, Occupational Health and Safety Regulations and others.
- **Safe Practices for Loading and Unloading Cargo**
Includes instruction on risk assessment requirements; personal protective equipment; lifting equipment; best practices for loading and unloading cylinders, tanks, and ancillary equipment.
- **Cargo Securement Principles**
Includes instruction on the components of a securement system; how to contain cargo; two methods for securing cargo; how to immobilize cargo; how to determine working load limits and when to inspect cargo securement systems.



- **Securing Cylinders, ASME Tanks, Tank Wagons and Ancillary Equipment**
Students will learn best practices for securing cylinders; skid-mounted tanks; standard ASME tanks; tank wagons and ancillary equipment.
- **Glossary**
The course manual also includes a complete glossary of the terms used in respect to load securement in the course.

Regulatory References

This course has been designed to satisfy regulatory requirements of the most current NSC Standard 10: North American Cargo Securement Standard, Transportation of Dangerous Goods Regulations, B339 - Cylinders, Spheres, and Tubes for the Transportation of Dangerous Goods code, CAN/CSA-B622 - Selection and Use of Highway Tanks, Multi-unit Tank Car Tanks, and Portable Tanks for the Transportation of Dangerous Goods, Class 2 standard, and Occupational Health and Safety Regulations. While this course has been written to satisfy national requirements, the employer or P·T·I certified Trainer will also ensure that the student is aware of any additional requirements as outlined by the authorities in their jurisdiction.

Certification Requirements

The student must successfully undergo a competency evaluation conducted by their employer or an individual appointed by the employer. Upon receipt of the competency exam, the Propane Training Institute will issue a paper Record of Training (ROT) certificate and plastic wallet card certifying successful completion of the course. P·T·I certification is valid for three years from the date of training.

Course Duration

This course has been designed to be offered as on-the job training, however, classroom instruction of this course including completion of the competency evaluation can be completed in less than four hours.

The cost of classroom instruction is determined by the Trainer and is dependent on where the training will be held and for how many students.