TRAINING MODULES FOR HOMOLOGATION PROCESSES

Homologation processes cover the requirements that concern employees who take part in almost every step from product design to aftermarket. In order to present the final product to the market smoothly, all relevant units have to work in coordination, and to achieve this all units must have basic information about the general requirements. Today, while all responsibilities related to homologation are mostly left to the homologation teams, teams responsible with purchasing, quality control, sales, import & export mostly do not have much information about homologation.

Taking this shortcoming into consideration, the training modules covered in this document have been specially prepared for different units and different responsibilities. This document contains information on the content, duration and target groups for different training modules. The durations given for the modules are approximate. Exact durations can be determined after mutual clarification of the requested training scope.

Training modules based on organizations:
Module O1: Introduction to Homologation
Module O2: Homologation in Product Development Processes - Basics
Module O3: Homologation in Product Development Processes – Technical Details
Module O4: Homologation in Production and Quality Control Processes
Module O5: Homologation in Sales Processes
Module O6: Homologation in Purchasing Processes
Module O7& O8: Homologation in Import & Export Processes

Training modules based on legislations:
Module M – 2007/46/EC
Module M – 2016/0014 (proposed frame directive in place of 2007/46/EC)
Module M – AİTM

Training modules based on the markets:
Module P – FMVSS: United States of America
Module P – GSO: Gulf Countries
Module P – Iran
Module O1

Introduction to Homologation

Basic information is given about the homologation processes. It focuses on how the entire organization is affected by the homologation requirements, rather than focusing on specific groups.

Related questions:
- What are the basic homologation steps to be followed for Turkish, EU and UN markets.
- What are the homologation processes for new designs and design changes?
- Which systems and components are covered?
- How do the different groups (purchasing, R&D, sales etc.) affected by homologation requirements?
- How can the organizations be formed in terms of type approval and conformity of production?
- What are the risks associated with the process?
- What are the basic responsibilities of manufacturers?
- What are the main responsibilities of importers?

Duration:
Min. 4 hours

Target groups:
All management stages, homologation teams
Module O2

Homologation in Product Development Processes – Basics

This training provides basic information about the homologation processes related with the product development phase. Basic information about the framework directive 2007/46/EC and related regulatory acts are given.

Related questions:
- What are the points for which special attention must be paid during product development and design phase?
- How should the homologation steps be located within the overall project plan?
- Which sources must be taken into consideration during design phase and how to access them?
- What do the “new type” and “new vehicle” mentioned in the directives and regulations mean?
- What kind of tests and documentation requested for different systems?
- How should the manufacturers act when they face a grey area within a directive/regulation?
- What are the common mistakes?

Duration:
Min. 4 hours

Target groups:
Product development teams, product development managers, homologation team, project management team
Module O3

Homologation in Product Development Processes – Technical Details

This training provides information on the separate regulatory acts contained in the framework directive 2007/46/EC. The related separate regulatory acts to focus on are determined according to the scope of production/project (vehicle category, scope of design, scope of design change etc.) and detailed information about the related directive/regulations are given.

Related questions:

- What are the critical points for which special attention must be paid during product development and design phase?
- How to determine which design changes may affect the homologation steps?
- What are the detailed requirements for specific systems?
- How to determine worst case conditions while there is a complexity of product attributes?
- How to select the worst case vehicle/component and how to prepare the test sample?
- What kind of documentation is needed for different systems?
- What are the common mistakes?

Duration:
The duration varies according to the requested scope. The recommended duration for passenger car, light commercial and heavy commercial vehicle manufacturers is 5 days. For a 5 days training, the critical systems which will be determined mutually should be focused on.

Target groups:
System engineering units, homologation team, testing teams, project management team
Module O4

Homologation in Production and Quality Control Processes

This training provides information on the additional responsibilities that begin with the start of serial production following the completion of the type approval process. Details about the conformity of production and the required homologation steps for design changes are informed.

Related questions:
- What is the conformity of production (CoP)? What needs to be done in this context? How can the organization be set up?
- How should control criteria and control intervals be determined?
- What kind of documentation should be created and maintained?
- What tests should be performed and which equipment should be possessed for these tests?
- What are the common mistakes?

Duration:
Min. 4 hours

Target groups:
Manufacturing, quality and homologation teams
Module O5

Homologation in Sales Processes

This training gives information on the homologation issues related with the sales processes. It focuses on the items that sales units need to pay attention.

Related questions:

- How should the process for creating certificates of conformity (CoC) work?
- How does the registration process flow?
- How should the transitional dates mentioned in the directive/regulations followed and how they may be bounding for the prospective orders?
- What are the homologation processes for small series national type approval, small series EC type approval and individual approval?
- What are the multi-stage type approval and modification options for superstructures?
- What might be the problems with stocked vehicles?

Duration:
Min. 4 hours

Target groups:
Sales and homologation teams
Module O6

Homologation in Purchasing Processes

This training gives information on the homologation issues related with the purchasing processes. It focuses on the items that purchasing units need to pay attention.

Related questions:
- Which type of products may influence the homologation process and what needs to be done when a modification occurs on these products?
- What are the points to pay attention while selecting suppliers and deciding a supplier change?
- What should be taken into account in cost reduction efforts?

Duration:
Min. 3 hours

Target groups:
Purchasing and homologation teams
Module O7 – Module O8

Homologation in Import and Export Processes

This training gives information on the homologation issues related with the import and export processes. It focuses on the items that import and export units need to pay attention.

In addition, detailed information may be provided about the local homologation processes of the target markets if requested. See Module C for such requests.

Related questions:
- What needs to be done in the process of evaluating the compliance of imported vehicles with the local homologation requirements?
- What can be the points to pay attention to during the type approval process in export markets?

Duration:
Min. 2 + 2 hours

Target groups:
Import, export and homologation teams
Module M – 2016/0014

The New Homologation Process with 2016/0014 (COD)

Within the scope of this training, information about the changes that may arise with the draft frame directive 2016/0014, which will repeal 2007/46/EC is given.

Related questions:
• What are the basic differences between 2007/46/EC and 2016/0014 (COD)?
• What may be the fundamental changes in the process of homologation?

Duration:
1 day

Target groups:
Homologation teams
Module M - AİTM

The New Homologation Process with the New AİTM

Within the scope of this training, information about changes with the new AİTM, which is a Turkish national legislation, is given. It focuses on the points that base vehicle manufacturers and body builders should pay attention.

Related questions:
- What are the new requirements coming with the new AİTM?
- How will the base vehicle manufacturers and body builders be affected with the changes on the legislation?

Duration:
1 day

Target groups:
Homologation teams, project teams
Module P

The Homologation Requirements of Markets Other Than Turkey and EU

Within this training, general information about the local homologation requirements of different markets are given.

Our current training portfolio includes the following markets:

- Module P - FMVSS: United States
- Module P - GSO: Gulf Countries (UAE, Bahrain, Saudi Arabia, Oman, Qatar, Kuwait, Yemen)
- Module P – Iran

Note: Detailed trainings for the markets other than above may be planned upon request

Related questions:

- What are the special considerations for exports to the relevant countries?
- How does the type approval process work?
- Can the homologation records prepared according to EU / UN legislations be referred?
- How to access relevant sources for local technical requirements?

Duration:

The duration depends on the market and product specifications.

Target groups:

Sales, export and homologation teams