





Requirements / Design / Operation

DIN 14097 FIREFIGHTER TRAINING FACILITIES

A COMPARISON OF EXISTING AND NEW DRAFT

DIN 14097



» General Information:

- > DIN 14097 = Firefighter Training Facilities
- As per DIN rules and procedures each standard will be reviewed 5 years within the DIN committee
- > If a standard no longer reflects the current state of technology, it is either revised or withdrawn.
- > DIN committee appoints a working group to review
- Working group consist of fire fighters, engineers,
 HS-insurance, manufacturers



» General Information:

- DIN 14097 is not a European Standard (CEN) nor International Standard (ISO)
- DIN 14097 is developed to allow architects, engineers, firefighters and administration to design, build and operate training facilities for firefighters and first responders
- Whenever DIN 14097 requirements are mentioned everyone knows what needs to be accomplished



DIN 14097 existing

» Parts:

- Part 1 General Requirements
- Part 2 Gas-Fuelled Simulation Devices
- Part 3 Wood-Fired Training
 Facillities
- Part 4 Firefighter Training Houses

DIN 14097 new draft

» Parts:

- Part 1 General Requirements
- Part 2 Gas-Fuelled Simulation Devices
 - Part 3 Wood-Fired Training Facillities
 - Part 5 Liquid-Fuelled SimulationDevices



DIN 14097 existing

» Part 1:

- Mainly related to a training building
- Very detailed building requirements
- Detailed requirements for the simulation equipment
- Operational requirements
- Acceptance and maintenance requirements

DIN 14097 draft

» Part 1:

- More generic with room for individual design
- Definition added:
 - Training Facility
 - Simulation Devices
 - Simulation Objects
 - Training Grounds
 - Training Rooms
 - Training Objects
- Clarification added



DIN 14097 existing

Part 1:

Information for use of installation

- Part 1:
 - Operational concept required
 - Detailed requirements
 - User Manual
 - Emergency plan
 - Warning notes
 - Safety requirements



DIN 14097 existing

- » Part 2 Gas Fuelled:
 - Explosion protection and prevention

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 - Explosion protection and prevention
 - Now also requirements on installation / pipework (gas tight)
 - Use of different gases
 - Gas in liquid phase is not allowed in close training environments
 - > Testing of equipment
 - In accordance with §15 / § 16BetrSichV



DIN 14097 existing

- » Part 3 Wood-fired:
 - Explosion protection and prevention
 - No differentiation of systems
 - Alarm Device
 - Cable activiated

- » Part 3 Wood-fired:
 - Differentiation between
 - Simulation without increasing pressure
 - Simulation with significant increasing pressure
 - Design should be cavity free!
 - Berlin accident!
 - > Alarm device
 - More simplified system





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» Part 4 Training houses:

- » Part 4 NOT Existing:
 - Part 4 is now partially integrated into part 1



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» Part 5 Not existing:

- » Part 5 Liquid Fueled:
 - New part!
 - Definition of liquid fuels
 - Only in outdoor areas
 - > Pressure fed only
 - Owner is responsible for safety analysis

DIN 14097



» Next Steps:

- > Draft presented to the DIN committee
- Draft (Yellow Print) will be presented to the public in July 2017
- Presentation and discussion on objections scheduled for Q4 2017
- > Final version will be available early 2018



Platform for a new Perspective!

QUESTIONS?