

02 / 'Boiler in-furnace Scaffolding' and 'HLT' training courses

- This program aims to step up job competencies so that practitioners can afford to safely operate boiler scaffolding and efficiently maintain it, by picking up basic design concepts, inspection methods, and operation skills for 'Scaffolding/HLT systems'.
- You can acquire essential knowledge necessary in practice through systematic curriculums, orchestrated by excellent and well-experienced faculty in each field.
- A variety of practical cases in point can be applied to the boiler in-furnace scaffolding management in a fashion to be most suitable for your own plants.



[ Training Programs ]

Day	Programs	Agenda	Main contents
1st	13:00~14:00	• Curriculum induction	• SKYFFOLDING™ and HLT concepts
	14:00~16:00	• Boiler in-furnace Scaffolding _Design and structure review	• SKYFFOLDING™ configuration • Design standards • Design procedures
	16:00~18:00	• Boiler in-furnace Scaffolding _Installation methodology	• SKYFFOLDING™ features and structure • SKYFFOLDING™ installation • SKYFFOLDING™ operational precautions
2nd	09:00~12:00	• HLT _Induction and construction cases	• Applied equipment induction • HLT concept design • Application cases at home and abroad
	13:00~15:00	• Boiler in-furnace Scaffolding _Safety management	• Safety inspection and maintenance
	15:00~16:00	• Boiler in-furnace Scaffolding _Lifting and examination	• Strand jack operation
	16:00~18:00	• Lifting system _Principle and concept • Lifting system _Inspection and Maintenance	• Principles of equipment operation and communication • Equipment inspection/maintenance descriptions and procedures
3rd	09:00~10:00	• Lifting system _Start-up exercise	• Strand jack installation and confirmation • in-furnace Scaffolding lifting and lowering; Program(SCC) operation
	10:00~11:00	• Lifting system _Maintenance protocols	• Mini jack disassembly and confirmation • HPU check-up and examination
	11:00~12:00	• Trainee general evaluation	• Trainee achievement evaluation

※ The above schedule is subject to change.

KLES Academy

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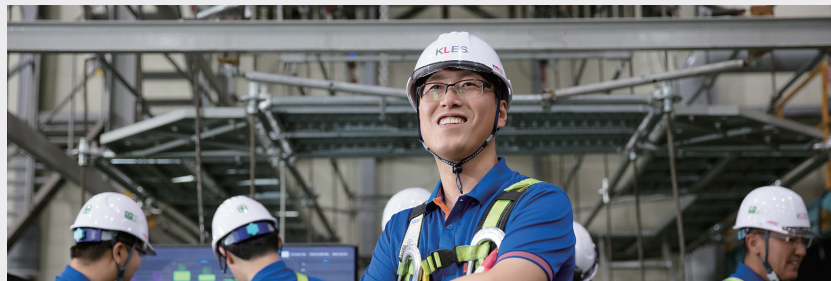
# KLES Academy

It is a unique education & training academy dedicated to fostering piping management professionals and in-furnace scaffolding maintenance experts throughout the energy industry such as thermal power, nuclear power, and new & renewable energy. Geared to the power plant practitioners either home or abroad, a broad variety of training programs have been organized in relation to the safety compliances that they have to catch on to.



## 01

### Training Course Objectives



#### Specialist training

Specialized technology-fueled training courses for the working-level managers

#### Practical training

Practical training courses using virtual simulators made up on the place, as if at the power plant site.

#### Open training

An academic platform working out problem tracking-down protocols in the multi-angle perspectives, by a get-together of numerous power plant mates.

## 02

### KLES Academy Curriculums



#### I Piping professionals training course I

This training program aims to train the professional workforce to grasp the basic design concepts of the pipes and the piping support devices, their inspection & analysis methods, and the piping 3D spatial movement, thereby scaling up the level of duties and skills of the piping practitioners concerned.



#### I 'Boiler in-furnace Scaffolding' and 'HLT' training courses I

**Boiler in-furnace Scaffolding** To enable boiler maintenance operators to carry through safe & secure boiler maintenance & repair works by making full-fledged use of SKYFFOLDING™ with its differentiated construction manuals, the collaborative courses of education both theoretical and practical are provided for, thereby stepping up their operating and management skills.

**Heavy Lifting Technology** A heavy-goods lifting solution is rendered, utilizing cutting-edge innovative HLT technology that ensures the safety of industrial sites and enables efficient construction.

## 03

### Specialist Training Courses



#### 01 / Piping professionals training course

- The plumbing accidents show on the rising trend because the pipelines of power plants or heavy chemical plants are getting aged in the course of long-term operations, and also because of natural disasters like earthquakes breaking out more often recently. Now, it is the time for specialized systematic education & training to be introduced to help operate and maintain the piping system on the field in a more practically proactive mode, rather than reactive in the past.
- In an effort to make the most of 3DDMS and Sling rod systems, nominated 'the Selected Item for Development' by big-five power companies, KLES came up to open up this training center so that the participants can be educated about the principal theories and their applications, taking advantage of simulation facilities intended to make up actual onsite working environments.
- Through the collaborative courses of training both theoretical and practical, the practitioners get to learn and improve the ability and skills to operate and manage the power piping system and the equipment.

#### [ Training Programs ]

Day	Programs	Agenda	Main contents
1st	09:00 ~ 09:30	• Curriculum Induction	• Induction to KLES Academy • Overview on Pipe&piping support device
	09:30 ~ 14:00	• ASME Code Learning	• ASME B31.1
	14:00 ~ 16:00	• Piping Management I	• P&ID Understanding
	16:00 ~ 18:00	• Piping Management II	• Piping, Stress analysis • Piping, Structure analysis
2nd	09:00 ~ 11:00	• Piping support device, Theory I	• Piping support device, Theory
	11:00 ~ 14:00	• Piping support device, Theory II	• Piping support device, Design • Piping, Analysis application
	14:00 ~ 16:00	• Piping Welding & Repair I	• Piping, Welding
	16:00 ~ 18:00	• Piping Welding & Repair II	• Piping, Repair
3rd	09:00 ~ 12:00	• Piping support device Management	• Assessment & Management skills • Piping support device inspection, load measurement, and load adjustment
	13:00 ~ 14:00	• Trainee general evaluation	• Trainee achievement evaluation

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