

EBARA Global Service Training Service Leaflet



SCHEDULE OF TRAINING COURSE FOR JGC VN	
Training location	At EBARA Viet Nam Pump Company Limited, Lai Cach Industrial Zone, Lai Cach Town, Cam Giang District, Hai Duong Province.
Customer	JGC VN
No. of customer	10 persons
Target	Almost beginners from Procurement, QC, Project departments. Almost all participants are not engineer originally.
Language	English
Date	31st May 2016
Detail of training schedule	
Time	Detail of subject
9:00-9:20	Introduction of EVPC (overview)
9:20-10:00	Introduction of fundamentals of pump technology - Function of pump - Principles of operation pump - Main parts of pump, function of its parts
10:00-10:30	Introduction about structure of pump & types of pump - Types of pump: • Centrifugal pump type • Mixed flow pump type • Axial flow pump type
10:30-10:40	Coffee break
10:40-12:15	Introduction of some kind of pumps which is manufacturing at EVPC - Horizontal double suction volute pump: CN type - Vertical double suction volute pump: VD type - Vertical centrifugal pump: VF type - Vertical mixed flow pump: VF type



EBARA Training Service

Pumps and axially equipment in plant shall be maintained periodically by skilled and experienced engineer & staff.

A lot of customer have an interested in development of human resource, so EBARA training service provides several kinds of training course to meet customer demand, such as lecture and practical training at site or EBARA facility. EBARA training service will provide one week training program which include basic knowledge of pump structure/operation, how to dismantle, perform inspection and assemble, temporally trouble shootings.

Our accumulated diagnostic/preventive engineering expertise and know-how are fully made use of in this service, earning us the title of a reliable provider of services for support to avoid human error.



1. Training Course

Customer clarify the purpose of training. Then select training location and course from Basic course, Advanced course, Specified pump course with optional items.

■ Basic Course

1. Fundamental
2. Performance
3. Structure
4. Operation
5. Maintenance

■ Advanced Course

1. Pump API Specification
2. Operation
3. Preventive Maintenance
4. Diagnosis
5. Trouble Shooting

■ Specified Pump Course

1. Pump Specification
2. Operation
3. Inspection
4. Assembly & Disassembly
5. Preventive Maintenance

[Optional Item]

Inspection & Test, Pump Selection, bearing/seal/coupling, Oil unit, Motor/Driver, Retrofit, Repair, Re-generation, etc.

2. Advanced Pump Training Material

Training material for beginner/senior engineer.

For beginner: It is more effective that new comer learn structure of pumps and procedure of inspection/assembly with using 3D technical manual instead of old style documentations. 3D pump model and Video include much more information, so they will understand pump maintenance more quickly than before.

For senior engineer: Pump for heavy duty service is maintained Periodically such as boiler feed water pump.

It is hard for site-maintenance group to perform complete overhaul of the pump, because of the structure is complex. So, it is need a lot of technical information and maintenance experience through long interval between the overhaul.

3D technical manual shall satisfy customer requirement.



3. Selectable Training location

Customers can select the Training location between EBARA training facility or Customer's training facility on site.

EBARA has two training facilities in Japan.

One is Futtsu Training Center for large sized and multistage pumps and the other is Fujisawa Training Center for API pumps.

EBARA will establish new facility in South East Asia and middle East.

Applied Equipment

☐ API Class Pump

- OH1, OH2, OH3, OH5
- BB1, BB2, BB3, BB4, BB5
- VS1, VS2, VS3, VS4, VS5, VS6, VS7

☐ Gear, Fluid Coupling

☐ Oil & Seal Console

4. Training at EBARA Training Facility

Customer can receive practical training using various kind of training pumps and lecture with special training material. Customer can select training location and accommodation. (customer's cost)

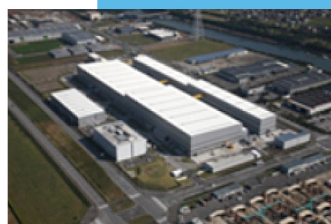
1) Futtsu Training Center

Futtsu Training Center is located in the southeast from Tokyo.

2) Fujisawa Training Center

Fujisawa Training Center is located in the southeast from Tokyo.

3) New Training facility will be establish in Vietnam and Indonesia shortly.



5. Training at customer's Training Facility on site

Maximum 10 people can participate in the on-site Training Program.

Customer can learn correct operation methods

of the pumps and procedure for dismantling, inspection, assembly and installation using actual pumps.

Customer can save training fees and time comparing with the training in Japan.



Contact & Communicate

1) Contact

EBARA Pump Training Service is organized by EBARA Japan and Local Service Offices.

EBARA Corporation/Fluid Machinery & Systems Company/Custom Pump Div.

www.ebara.co.jp

2) Communicate

Users can communicate by E-mail, Telephone, Fax, and Directly In-person with our Service Staff.

Please feel free to tell us your specific needs via our "Kind and Speedy" Service.





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