HORIBA
Medical

2024

TRAINING CATALOGUE 2024

Hematology, Clinical Chemistry & Hemostasis

Face to Face

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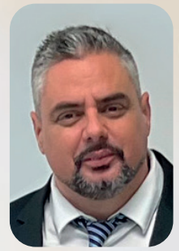
Summary

The International Training Manager's word	**1**
Our commitments	**2**
HORIBA Medical Training Centers	**3**
o Bangkok, Thailand	**4**
o Irvine, USA	**5**
o Kyoto, Japan	**6**
o Montpellier, France	**7**
o Nagpur, India	**8**
o Sao Paulo, Brazil	**9**
o Shanghai, Chine	**10**
Hematology courses	**12**
Clinical chemistry courses	**32**
Hemostasis courses	**44**
Your contacts	**50**

The International Training Manager's word



Dear Horibarians, dear partners, and dear customers,
This year will once again bring big challenges.
More than ever we need to mutualize our talents to bring product knowledge around the world.
We will make it possible by increasing our already strong digital training offer, by opening more training centers,
by getting well prepared for the release of new products (including our brand new chemistry range).

While we are currently sustaining our previous activity, we are also strongly committed to these new projects.
Be assured that we will continue to make every effort to ensure that the learning moments we share with you, in each of our centres and online, are great experiences we constantly improve.

Thibault CRES

Our commitments

Modernize our sessions and training materials to be at the forefront of current teaching techniques:

To this end, we are studying numerous projects which allows to facilitate and optimize your learning (e-learning, micro-learning, interactive MCQ, webinars, technical videos…) and we are constantly improving our teaching techniques and methods during face-to-face trainings.
Furthermore, this year we are modernizing all our software for recording training sessions and distribution of documents.

Improve and standardize the quality of our services in all Training Centers:

All of our Training Centers are organized to offer you similar and standardized sessions for which we try to improve the quality of the content each year.
For this, each center uses the same tools, the same criteria for certifying trainers and applies the same procedures that comply with our international certifications.

One Company ! and One Training Standard.

Promote respect for the environment in our daily work:

We want to increase, even more, our commitment to respect the environment; thus we started the project to remove all the “quality” documents in paper format from our sessions in order to dematerialize them along with a full management of the electronic validation process.

HORIBA Medical Training Centers

HORIBA Medical Training division organizes each year more than 4000 training days, in our subsidiaries or outside premises.

Last year, we had the pleasure to train about 1000 trainees on our products and more than 90% of them were “very satisfied” at the end of the training session.
The training sessions we offer are varied in order to meet the skills needs of trades:
Service Engineers
Application Engineers
Sales Engineers
Business Expert
Final referent Users…
To facilitate a good knowledge transmission, HORIBA Medical Training Centers are located everywhere in the world :

- Bangkok, Thailand
- Irvine, USA
- Kyoto, Japan
- Montpellier, France
- Nagpur, India
- Sao Paulo, Brazil
- Shanghai, China

Bangkok, Thailand

Established in HORIBA (Thailand) Limited facilities, with decades of experience in Hematology, Biochemistry and Hemostasis (through a previous distribution partnership), Bangkok Training Center participates in the deployment of our instruments in Asia-Pacific. Like Montpellier's, Bangkok Training Center offers training courses in the three domains of knowledge. Every month, the training session available is tailored to meet the needs expressed.

Mr. Antoine Meyrignac
General Manager – Asia Pacific
Training Center Manager

Ms. Mattaneeya Pattarateerachat
Application Manager
Asia Pacific - Application Trainer

Mr. Jefferson Villapando
Technical Trainer

Ms. Patcharee Thawornwiriyanun (Ning)
Assistant to GM – Asia Pacific
Training Coordinator

Irvine, USA

Using all modern pedagogical technologies and techniques: video, e-learning modules, face-to-face trainings, the Irvine Training Center trains more than 400 trainees per year. The Center gives technical trainings, application trainings and trainings oriented towards the use of our equipments. The face-to-face sessions take place partly in the offices in California but also directly in the Customer's laboratory, handled by FSE (Field Service Engineers) & Application Specialists.

Skip Smith
Training Center Manager

Tim Haugeback
Field Service Engineer & Trainer

Steven Mason
Trainer

Kyoto, Japan

The Japan Training Center is the first Multi-segment (Automotive, Medical, Process & Environment, Scientific, Semi conductor) Training center of the group and has been opened in 2021.
Based in Kyoto, the Medical activity has been officialized in Sept. 22.
With over 51 training instruments units and 5 training rooms, the training center offers possibility to train up to 48 people at a time.
The studio and the online room allow remote training.
E-Learning is also available.

Mr. Yoichiro Tamamura
Training Center Section Leader

Mr. Ken Kamezaki
Training Coordinator (Medical)

Ryusuke Sakaguchi
Training Coordinator (Multi segment)

Shuhei Takama
Service Division Medical Device

Montpellier, France

Based in our HORIBA Medical French site, in Montpellier, the Training Center welcomes each year more than 500 trainees, from more than 90 different nationalities.

The Training Center offers optimal working conditions:
- 6 Training rooms
- 50 instruments from all HORIBA Medical ranges (including the latest ones, as HELO 2.0* Solution and the new hemostasis instruments range)

*HORIBA Evolutive Laboratory Organization

Thibault Cres
HORIBA Medical Training Manager
Green Belt in LEAN management and methods of continuous improvement speciality:
Clinical cases studies, educational engineering

Laurence Nguyen-Galzi
Digital Training Coordinator

Leila Nasser
Documentation &
Training Center Assistant

Olivier Bois
Clinical Chemistry, Hemostasis and Hematology Trainer
Technical Support

Eric Diaz
Expert Trainer in Hematology
Technical team training manager
Face-to-face Training Coordinator

Margaux Boissiere
Hematology Trainer
Referent for Application trainings

Nagpur, India

Crucial in more than one way, the Indian market is booming.
To reach a high level of customer satisfaction thanks to professional and efficient teams, HORIBA India invests heavily in its Training Center; with four training rooms equipped with all Hematology and Biochemistry ranges, one manager, one coordinator and two full time trainers, HORIBA India Training Center trains more than 250 trainees each year.

Pushkar Admane
Head – Scientific Affairs & Training

Suthram Subramanyam
Clinical Chemistry Trainer

Murali Ramachandran
Hematology Trainer

Sao Paulo, Brazil

The Brazilian Training Center, located near Sao Paulo, has already been operating for many years. Major actor for the HELO* Solution, – more than 50 high range instruments are already installed in customer's laboratories in Brazil and are running several thousand of samples per day! - the Training Center is a crucial support ensuring simultaneously the transmission of knowledge to HORIBA Brazil staff, to HORIBA Brazil local distributors but also to all our Latin America's distribution network.

*HORIBA Evolutive Laboratory Organization

Fabio Oliveira
Training Center Manager

Charles Camargo
Trainer Manager
Training Coordinator

Barbara Lima
Trainer

Fabio Simoes
Trainer

Mariana Bueno
Trainer

Shanghai, China

In order to support the launch of the Yumizen Hematology range on the Chinese market (HELO* Solution, YH550), HORIBA (China) Trading Co, Ltd. get equipped with a state-of-the-art training Center which has opened its doors july-2019. Everything is being done to ensure that the Center is operational as soon as it is launched: certified trainers, equipped facilities and a fleet of instruments to meet this major challenge.

*HORIBA Evolutive Laboratory Organization

Yi Xue
Shanghai Training Center Manager
Hematology Technical Trainer
Excellent Service Engineer
Technology and malfunction analysis

Jun Wang
Hematology Technical Trainer
Expert Service Engineer
More than 10 years of HORIBA Medical
Service experience

Qiong Gao
Hematology Application Trainer
Clinical laboratory medicine
Experienced Application
Specialist

Ming Cao
Hematology Application Trainer
Clinical laboratory medicine
10 years' work experience in
hospital clinical laboratory

HE
MA
TO
LOGY

Courses

1 day
7 hours

Hematology **Discovery**

Training Code
STD HEM DIS EN 1D

Revision
October, 2023

Training main objectives
Improve Hematology knowledge:
- Hematopoiesis
- Cytology
- Parameters and limits

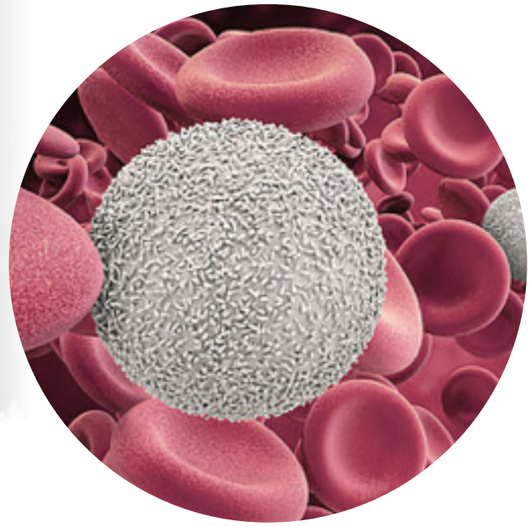
Improve technologies knowledge:
- Hematology instruments technologies
- Reagents description
- Hardware description
- Software description

Skills targeted
At the end of the training course, the trainee should understand the hematology basics and HORIBA Medical instruments main functions and technologies.

Duration and Schedule
The training takes place on 1 day, begins at 9 a.m. and ends at 5 p.m.

Requirements & Recommendations
Requirements: none for this course
Recommendations: none for this course

Learning methods
- Theoretical presentations
- Instrument practice
- Jeopardy
- Reagents & spare parts manipulation



4 days
28 hours

HELO* **Application**

Training Code
STD HELO* APP EN 4D

Revision
February, 2019

Training main objectives
Be able to use HELO* Solution:
- Run samples
- Run QC
- Results and alarms interpretation

Be able to configure HELO 2.0* Solution
- Users configurations
- Laboratory configuration

Be able to provide support to customers:
- Initial installation setup and training
- Answering questions regarding technology, alarms, post-analytic recommendations

Skills targeted
At the end of the training course, the trainee should be able to use HELO* Solution, customize any laboratory organization, be capable to train users after the installation and independently ensure the consistency of the devices optimal performances.

Duration and Schedule
The training takes place on 4 days, begins at 9 a.m. and ends at 5 p.m. daily.

Requirements & Recommendations
Requirements: none for this course
Recommendations: have been previously trained on lower HORIBA Medical ranges

Learning method
- Theoretical presentation
- Instruments practice
- Role-play: Instruments demonstration, alarms
- Jeopardy
- Application exercises and troubleshooting
- Quiz

*HORIBA Evolutive Laboratory Organization

5 days
32 hours

+
3 sessions
9 hours
Online

+
E-Learning
YP8000 Tec - Setup - Use

Yumizen H1500, H2500 & P8000 **Technical Blended**

Training Code
STD BLENDED YH2500 EN 5D3S

Revision
October, 2023

Training main objectives
Be able to use instruments
- Understand technical differences between YH1500 & YH2500

Be able to provide technical support to customers on the systems:
- Installation process
- Preventive maintenances
- Adjustments
- Troubleshooting

Skills targeted
At the end of the training course, the trainee should understand the basic principles of hematology, categorize alarm messages, solve systems dysfunction, and independently ensure the consistency of the devices optimal performances.

Duration and Schedule
The online training is organized in 3 sessions of 3 hours each (morning or afternoon).
The face-to-face training takes place on 5 days from 9 a.m. to 5 p.m. daily.
Last day, end of the training at 2 p.m.

Requirements & Recommendations
Requirements: Online sessions & E-Learning modules are mandatory to attend face-to-face training
Recommendations: have been previously trained on lower HORIBA Medical ranges

Documentation & specific tools used
- Theoretical presentation
- Instrument practice
- Jeopardy
- Maintenance processing
- Technical exercises and troubleshooting
- Quiz

3 days
20 hours

Yumizen T6000 **Technical**

Training Code
STD YT6000 TEC EN 3D

Revision
January, 2019

Training main objectives
Understand functioning principles:
- Regular workflow
- High-priority racks
- Smoothing workflow

Be able to install
Be able to adjust:
- CIM adjustment

Be able to repair

Skills targeted
At the end of the training session, the trainee should be able to install, maintain and repair Yumizen T6000 instrument. The trainee should also be able to ensure independently the consistency of the devices optimal performances.

Duration and Schedule
The training lasts 3 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 4 p.m.

Requirements & Recommendations
Requirements: none for this course
Recommendations: none for this course

Learning method
- Theoretical presentation
- Instrument practice
- Jeopardy
- Maintenance processing
- Technical exercises and troubleshooting
- Quiz

4 days
27 hours

HELO* **Use**

Training Code
STD HELO* USE EN 4D

Revision
February, 2019

Training main objectives
Improve Hematology knowledge:
- Measurement
- Parameters
- Reagents

Be able to use instruments:
- Calibration & QC handling
- Run patient sample

Skills targeted
At the end of the training course, the attendee should understand hematology principles, analyze if an alarm is due to technical, clinical problems.

Duration and Schedule
The training lasts 4 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 4 p.m..

Requirements & Recommendations
Requirements: basic knowledge and experience in hematology
Recommendations: have previous experience in hematology systems.

Learning methods
- Theoretical presentation
- Instruments practice
- Jeopardy
- Clinical case studies
- Quiz

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3 days
20 hours

New Yumizen H500 & H550 Range
Application

Training Code
STD YH550 APP EN 3D

Revision
January, 2019

Training main objectives
Improve Hematology knowledge:
- Measurement
- Parameters
- Reagents

Be able to use instruments:
- Calibration & QC handling
- Run patient sample

Be able to provide support to customers:
- Initial installation setup and training
- Answering questions regarding technology, alarms, pre-analytical

Skills targeted
At the end of the training course, the attendee should understand hematology principles, analyze if an alarm is due to technical, clinical problems, answer customer questions, train customers, and independently ensure the consistency of the devices optimal performances.

Duration and Schedule
The training lasts 3 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 4 p.m.

Requirements & Recommendations
Requirements: basic knowledge and experience in hematology
Recommendations: have previous application experience in hematology systems.

Learning methods
- Theoretical presentation
- Instruments practice
- Role-play: Instruments demonstration, alarms
- Jeopardy
- Application exercises and troubleshooting
- Quiz

5 days
32 hours

New Yumizen H500 & H550 Range
Technical

Training Code
STD YH550 TEC EN 5D

Revision
January, 2019

Training main objective
Improve Hematology knowledge:
- Basic principles
- Parameters normal values
- Reference methods

Be able to use Yumizen H500 & H550 instruments
Be able to provide technical support to customers:
- Installation process
- Preventive maintenances
- Adjustments
- troubleshooting

Skills targeted
At the end of the training course, the trainee should understand the basic principles of hematology, categorize alarm messages, solve systems dysfunction, and independently ensure the consistency of the devices optimal performances.

Duration and Schedule
The training takes place on 5 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 2 p.m.

Requirements & Recommendations
Requirements: none for this course
Recommendations: none for this course

Documentation & specific tools used
- Theoretical presentation
- nstrument practice
- Jeopardy
- Maintenance processing
- Technical exercises and troubleshooting
- Quiz

2 days
13 hours

New Yumizen H500 & H550 Range **Use**

Training Code
STD YH550 USE EN 2D

Revision
February, 2019

Training main objectives
Improve Hematology knowledge:
- Measurement
- Parameters
- Reagents

Be able to use instruments:
- Calibration & QC handling
- Run patient sample
- Instrument user maintenances

Skills targeted
At the end of the training course, the attendee should understand hematology principles, analyze if an alarm is due to technical or clinical problems.

Duration and Schedule
The training lasts 2 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 4 p.m.

Requirements & Recommendations
Requirements: basic knowledge and experience in hematology
Recommendations: have previous experience in hematology systems.

Learning methods
- Theoretical presentation
- Instruments practice
- Jeopardy
- Clinical case studies

5 days
32 hours

Yumizen SPS **Technical**

Training Code
STD SPS TEC EN 5D

Revision
January, 2019

Training main objective
Be able to provide technical support to customers on SPS Ranges:
- Installation process
- Preventive maintenances
- Adjustments
- Troubleshooting

Skills targeted
The trainee must be able to install, maintain and repair Yumizen SPS instruments at the end of this training session.

Duration and Schedule
The training takes place on 5 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 2 p.m.

Requirements & Recommendations
Requirements: none for this course
Recommendations: none for this course

Learning methods
- Theoretical presentation
- Instrument practice
- Jeopardy
- Maintenance processing
- Technical exercises and troubleshooting
- Quiz

5 days
32 hours

+
3 sessions
9 hours
Online

Pentra XLR & Pentra 80 Ranges **Technical**

Training Code
STD BLENDED P80XL & XLR EN 5D3S

Revision
July, 2021

Training main objectives
Improve Hematology knowledge:
- Basic principles
- Parameters normal values
- Reference methodes

Be able to use PXLR & P80 Ranges instruments:
- Understand technical differences between PXLR & P80 Ranges

Be able to provide technical support to customers on P60 & P80 Ranges:
- Installation process
- Preventive maintenances
- Adjustments
- Troubleshooting

Skills targeted
At the end of the training course, the trainee should understand the basic principles of Hematology, categorize alarm messages, solve systems dysfunction, and independently ensure the consistency of the devices optimal performances.

Duration and Schedule
The online training is organized in 3 sessions of 3 hours each (morning or afternoon).
The face-to-face training takes place on 5 days from 9 a.m. to 5 p.m. daily.
Last day, end of the training at 2p.m.

Requirements & Recommendations
Requirements: Online sessions are mandatory to attend face-to-face training
Recommendations: have been previously trained on lower HORIBA Medical ranges

Learning methods
- Theoretical presentation
- Instruments practice
- Role-play: Instruments demonstration, alarms
- Jeopardy
- Application exercises and troubleshooting
- Quiz

3 days
18 hours

Pentra XLR **Use**

Training Code
STD PXLR USE EN 3D

Revision
February, 2019

Training main objectives
Improve Hematology knowledge:
- Measurement
- Parameters
- Reagents

Be able to use instruments:
- Calibration & QC handling
- Run patient sample

Skills targeted
At the end of the training course, the attendee should understand hematology principles, analyze if an alarm is due to technical, clinical problems.

Duration and Schedule
The training lasts 3 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 2 p.m.

Requirements & Recommendations
Requirements: basic knowledge and experience in hematology
Recommendations: have previous experience in hematology systems.

Learning methods
- Theoretical presentation
- Instrument practice
- Jeopardy
- Clinical case studies
- Quiz

4 days
27 hours

Pentra XLR **Application**

Training Code
STD PXLR APP EN 4D

Revision
October, 2023

Training main objectives
Improve Hematology knowledge:
- Measurement
- Parameters
- Reagents

Be able to use instruments:
- calibration & QC handling
- Run patient sample

Be able to provide support to customers:
- Initial installation setup and training
- Answering questions regarding technology, alarms, pre-analytical

Skills targeted
At the end of the training course, the attendee should understand hematology principles, analyze if an alarm is due to technical, clinical problems, answer customer questions, train customers, and independently ensure the consistency of the devices optimal performances.

Duration and Schedule
The training lasts 4 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 4 p.m.

Requirements & Recommendations
Requirements: basic knowledge and experience in hematology
Recommendations: have previous experience in hematology systems.

Learning methods
- Theoretical presentation
- Instruments practice
- Role-play: Instruments demonstration, alarms, answers
- Jeopardy
- Application exercises and troubleshooting
- Quiz

1 day
7 hours

ABX Micros ES60 **Use**

Training Code
STD MIC ES60 USE EN 1D

Revision
February, 2019

Training main objectives
Improve Hematology knowledge:
- Measurement
- Parameters
- Reagents

Be able to use instrument:
- Calibration & QC handling
- Run patient sample

Skills targeted
At the end of the training course, the attendee should understand hematology principles, analyze if an alarm is due to technical, clinical problems.

Duration and Schedule
The training lasts 1 day, begins at 9 a.m. and ends at 5 p.m.

Requirements & Recommendations
Requirements: basic knowledge and experience in hematology
Recommendations: have previous experience in hematology systems.

Learning methods
- Theoretical presentation
- Instrument practice
- Jeopardy
- Clinical case studies
- Quiz

4 days
28 hours

+
E-Learning
Hematology

Micros 60 Ranges **Technical**

Training Code
STD MIC TEC EN 4D

Revision
February, 22, 2019

Training main objectives
Improve Hematology knowledge:
• basic principles
• parameters normal values
• reference methods
Be able to use Micros 60 Ranges instruments
• Understand technical differences between Micros 60, Micros 60 ES CT/OT Ranges
Be able to provide technical support to customers on MICROS 60 Ranges:
• Installation process
• Preventive maintenances
• Adjustments
• troubleshooting

Skills targeted
At the end of the training course, the trainee should understand the basic principles of Hematology, categorize alarm messages, solve systems dysfunction, and independently ensure the consistency of the devices optimal performances.

Duration and Schedule
The training takes place on 4 days, begins at 9 a.m. and ends at 5 p.m. daily.

Requirements & Recommendations
Mandatory Elearning: Hematology Beginner

Learning methods
• Theoretical presentation
• Instrument practice
• Jeopardy
• Maintenance processing
• Technical exercises and troubleshooting
• Quiz

5 days
32 hours

Low & Middle Ranges **Application**

Training Code
STD LOW MID APP EN 5D

Revision
March, 2019

Training main objectives
Improve Hematology knowledge:
- Measurement
- Parameters
- Reagents

Be able to use instruments:
- Calibration & QC handling
- Run patient sample

Be able to provide support to customers:
- Initial installation setup and training
- Answering questions regarding technology, alarms, pre-analytical

Skills targeted
At the end of the training course, the attendee should understand hematology principles, analyze if an alarm is due to technical, clinical problems, answer customer questions, train customers, and independently ensure the consistency of the devices optimal performances.

Duration and Schedule
The training lasts 5 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 2 p.m.

Requirements & Recommendations
Requirements: basic knowledge and experience in hematology
Recommendations: have previous application experience in hematology systems.

Learning methods
• Theoretical presentation
• Instruments practice
• Role-play
• Jeopardy
• Application exercises and troubleshooting
• Quiz

2 days
11 hours

MicrosEMI CRP **Use**

Training Code
STD EMICRP USE EN 2D

Revision
January, 2021

Training main objectives
Improve Hematology knowledge:
- Measurement
- Parameters
- Reagents
- Improve CRP parameter knowledge:
- Clinical interest
- Measurement principle & normal value

Be able to use instruments:
- Calibration & QC handling
- Run patient sample

Skills targeted
At the end of the training course, the attendee should understand hematology principles and be able to identify whether an alarm is caused by technical or clinical problems.

Duration and Schedule
The training lasts 2 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 2 p.m.

Requirements & Recommendations
Requirements:
Basic knowledge and experience in Hematology
Recommendations:
Prior experience in Hematology systems

Learning methods
- Theoretical presentation
- Instrument practice
- Clinical case studies
- Quiz

3 days
21 hours

Cellavision **Technical**

Training Code
STD CELLA TEC EN 3D

Revision
October, 2023

Training main objectives
Be able to use Cellavision instruments:
- Run a slide
- Check a slide
- Sign a slide

Be able to configure Cellavision instruments:
- User configurations
- Laboratory configurations
- Application configurations

Be able to configure Yumizen SPS and P8000 instruments:
- Smearing protocol for Cellavison
- Staining protocol for Cellavison
- P8000 connection to Cellavision

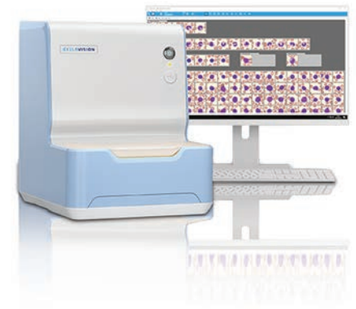
Be able to provide support to customers:
- Initial installation setup and training
- Answering questions regarding technology and alarms

At the end of the training course, the trainee should be able to use Cellavision instruments and applications, customize any laboratory configuration, and be capable to train users after the installation.

Duration and Schedule
The training lasts 3 days, begins at 9 a.m. and ends at 5 p.m. daily.

Requirements & Recommendations
Requirements: none for this course
Recommendations: none for this course.

Learning methods
- Theoretical presentation
- Instruments practice
- Application exercises
- Quiz



2 days
14 hours

Cellavision **Application**

Training Code
STD CELLA APP EN 2D

Revision
October, 2023

Training main objectives
Be able to use Cellavision instruments:
- Run a slide
- Check a slide
- Sign a slide

Be able to configure Cellavision instruments:
- Users configurations
- Laboratory configurations
- Applications configurations

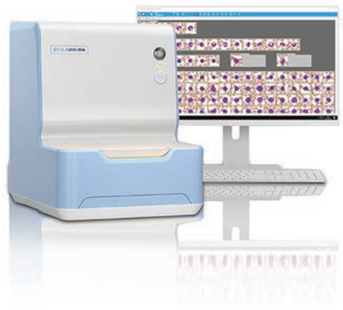
Be able to provide support to customers:
- Initial installation setup and training
- Answering questions regarding technology, alarms

Skills targeted
At the end of the training, the trainee should be able to use Cellavision instruments and applications, customize any laboratory configuration, and be capable to train users after the installation.

Duration and Schedule
The training lasts 3 days, begins at 9 a.m. and ends at 5 p.m. daily.

Requirements & Recommendations
Requirements: none for this course
Recommendations: none for this course

Learning methods
- Theoretical presentation
- Instruments practice
- Application exercises
- Quiz



CLINICAL Courses

CHEMISTRY

Biochemistry **Discovery**

1 day
7 hours

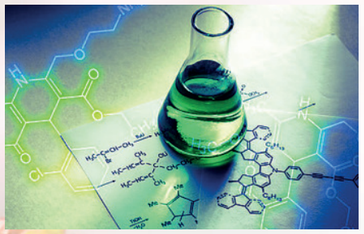
Training Code
STD BIO DIS EN 1D

Revision
October, 2023

Training main objectives
Improve Biochemistry knowledge:
- Chemistry molecules
- Medical panels of Clinical Chemistry
- Parameters

Improve Technologies knowledge:
- Clinical chemistry technologies
- Hardware description
- Software description
- Reagent description
- Application calculation

Skills targeted
At the end of the training course, the trainee should understand the clinical chemistry basics and HORIBA Medical instruments main functions and technologies.



Duration and Schedule
The training lasts 1 day, begins at 9 a.m. and ends at 5 p.m.

Requirements & Recommendations
Requirements: none for this course
Recommendations: none for this course

Learning methods
- Theoretical presentations
- Instrument practice
- Jeopardy
- Reagents & spare parts manipulation

Pentra C400 Range
Application

4 days
27 hours

Training Code
STD PC400 APP EN 4D

Revision
October, 2023

Training main objectives
Improve Biochemistry knowledge:
- Application calculations
- Medical panels of Clinical Chemistry
- Reagents

Improve technologies knowledge:
- Analyzers
- Calculation & calibration

Be able to use Pentra C400 instruments:
- Reagent, calibration & QC handling
- Run patient sample

Be able to provide support to customers:
- Initial installation setup and training
- Applications modification and creation
- Answering questions regarding technology, alarm, pre-analytical

Skills targeted
At the end of the training course, the attendee should understand the biochemistry application on Pentra C400, analyze if an alarm is due to technical, clinical or pre-analytical problems, answer customer questions, train customers, and independently ensure the consistency of the devices optimal performances.

Duration and Schedule
The training takes place on 4 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 4 p.m.

Requirements & Recommendations
Requirements: basic knowledge and experience in clinical chemistry
Recommendations: have previous application experience in biochemistry systems.

Learning methods
- Theoretical presentation
- Instruments practice
- Role-play: Instruments demonstration, alarms
- Jeopardy
- Application exercises and troubleshooting
- Quiz

Pentra C400 Range
Technical Blended

5 days
32 hours

+
4 sessions
12 hours
Online

Training Code
STD BLENDED PC400 TEC EN 5D4S

Revision
October, 2023

Training main objectives
Improve Biochemistry knowledge:
- Chemistry molecules
- Measurements
- Application calculations
- Medical panels of Clinical Chemistry
- Reagents

Be able to use Pentra C400 instruments:
- Reagent, calibration & QC handling
- Run patient sample

Be able to provide technical support on Pentra C400 Range:
- Installation process
- Maintenances
- Adjustments
- Troubleshooting

Skills targeted
At the end of the training course, the attendee should understand the basic of Biochemistry principles, analyze if an alarm is due to technical, clinical or pre-analytical problems, solve systems malfunctioning, and independently ensure the consistency of the devices optimal performances.

Duration and Schedule
The online training is organized in 3 sessions of 3 hours each (morning or afternoon).
The face-to-face training takes place on 5 days from 9 a.m. to 5 p.m. daily.
Last day, end of the training at 2 p.m.

Requirements & Recommendations
Requirements: Online sessions are mandatory to attend face-to-face training
Recommendations: have some previous technical experience in others diagnostics systems.

Learning methods
- Theoretical description
- Instrument practice
- Jeopardy
- Maintenance practice
- Technical exercises and troubleshooting
- Quiz

Pentra C400 Range
Use

3 days
21 hours

Training Code
STD PC400 USE EN 3D

Revision
October, 2023

Training main objectives
Improve Biochemistry knowledge:
- Application methods overview

Improve technologies knowledge:
- Analyzers
- Calculation & calibration

Be able to use and maintain Pentra C400 instruments:
- Reagent, calibration & QC handling
- Run patient sample
- User's maintenances
- Basic user's troubleshooting

Skills targeted
At the end of the training course, the attendee should get a good easy going on the instrument, understand Pentra C400 functioning and setting, analyze and understand instrument alarm and flags.

Duration and Schedule
The training takes place on 3 days, begins at 9 a.m. and ends at 5 p.m. daily.

Requirements & Recommendations
Requirements: basic knowledge and experience in clinical biochemistry
Recommendations: have previous experience in biochemistry systems.

Learning methods
- Theoretical presentation
- Instruments practice
- Jeopardy
- Application exercises

Pentra C200 Range
Application

4 days
28 hours

Training Code
STD PC200 APP EN 4D

Revision
October, 2023

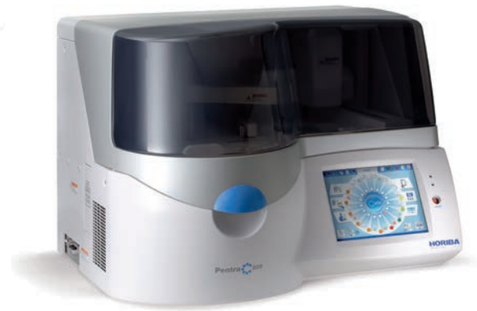
Training main objectives
Improve Biochemistry knowledge:
- Application calculations
- Medical panels of Clinical Chemistry
- Reagents

Improve technologies knowledge:
- Analyzers
- Calculation & calibration

Be able to use Pentra C200 instruments:
- Reagent, calibration & QC handling
- Run patient sample

Be able to provide support to customers:
- Initial installation setup and training
- Applications modification and creation
- Answering questions regarding technology, alarm, pre-analytical

Skills targeted
At the end of the training course, the attendee should understand the biochemistry application on Pentra C200, analyze if an alarm is due to technical, clinical or pre-analytical problems, answer customer questions, train customers, and independently ensure the consistency of the devices optimal performances.



Duration and Schedule
The training takes place on 4 days, begins at 9 a.m. and ends at 5 p.m. daily.

Requirements & Recommendations
Requirements: basic knowledge and experience in clinical chemistry
Recommendations: have previous application experience in biochemistry systems.

Learning methods
- Theoretical presentation
- Instruments practice
- Role-play: Instruments demonstration, alarms, answers
- Jeopardy
- Application exercises and troubleshooting
- Quiz

Pentra C200 Range
Technical Blended

5 days
32 hours

+
4 sessions
12 hours
Online

Training Code
STD BLENDED PC200 TEC EN 5D4S

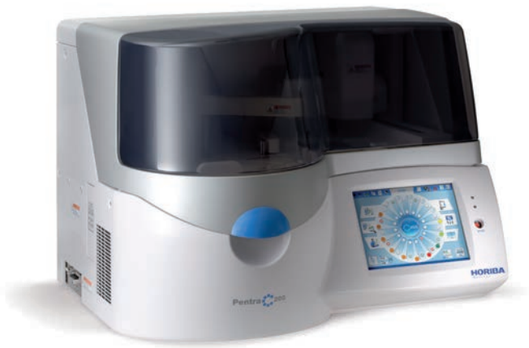
Revision
January, 2019

Training main objectives
Improve Biochemistry knowledge:
- Chemistry molecules
- Measurements
- Application calculations
- Medical panels of Clinical Chemistry.
- Reagents

Be able to use Pentra C200 instruments:
- Reagent, calibration & QC handling
- Run patient sample

Be able to provide technical support on Pentra C200 Range:
- Installation process
- Maintenances
- Adjustments
- Troubleshooting

Skills targeted
At the end of the training course, the attendee should understand the basic of biochemistry principles, analyze if an alarm is due to technical, clinical or pre-analytical problems, solve systems malfunctioning, and independently ensure the consistency of the devices optimal performances.



Duration and Schedule
The online training is organized in 4 sessions of 3 hours each (morning or afternoon).
The face-to-face training takes place on 5 days from 9 a.m. to 5 p.m. daily.
Last day, end of the training at 2 p.m.

Requirements & Recommendations
Requirements: Online sessions are mandatory to attend face-to-face training
Recommendations: have some previous technical experience in others diagnostics systems.

Learning methods
- Theoretical description
- Instrument practice
- Jeopardy
- Maintenance practice
- Technical exercises and troubleshooting
- Quiz

Pentra C200 Range
Use

3 days
21 hours

Training Code
STD PC200 USE EN 3D

Revision
January, 2019

Training main objectives
Refresh Biochemistry knowledge:
- Application refresh

Improve technologies knowledge:
- Analyzers
- Calculation & calibration

Be able to use and maintain Pentra C200 instruments:
- Reagent, calibration & QC handling
- Run patient sample
- User's maintenances
- Basic user's troubleshooting

Skills targeted
At the end of the training course, the attendee should get a good easy going on the instrument, understand Pentra C200 functioning and setting, analyze and understand instrument alarm and flags.

Duration and Schedule
The training takes place on 3 days, begins at 9 a.m. and ends at 5 p.m. daily.

Requirements & Recommendations
Requirements: basic knowledge and experience in clinical biochemistry
Recommendations: have previous experience in biochemistry systems.

Learning methods
- Theoretical presentation
- Instruments practice
- Jeopardy
- Application exercises

Yumizen C Range
Use

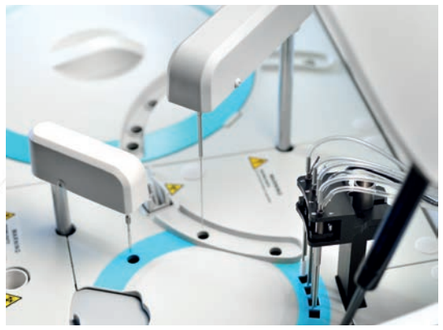
3 days
20 hours

Training Code
STD Yumizen C USE EN 3D

Revision
July, 2023

Training main objectives
- Refresh Biochemistry knowledge:
  - Application range
- Improve technologies knowledge.
- Be able to use Yumizen C instruments:
  - Reagent, calibration & QC handling
  - Run patient sample
- Be able to manage:
  - User's maintenances
  - Applications modification
  - Basic user's troubleshooting

Skills targeted
At the end of the training course, the attendee should get a good easy going on the instrument, understand Yumizen C functioning and setting, analyze and understand instrument alarm and flags, solve user's issues. And independently ensure the consistency of the devices optimal performances, doing user's maintenance



Duration and Schedule
The training takes place on 3 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 4 p.m.

Requirements & Recommendations
Requirements: basic knowledge and experience in clinical biochemistry
Recommendations: have previous experience in biochemistry systems.

Learning methods
- Theoretical presentation
- Instruments practice
- Role-play: Instruments demonstration, alarms, answers
- Jeopardy

Yumizen C Range
Application

1 day
7 hours

Training Code
STD Yumizen C APP EN 1D

Revision
July, 2023

Training main objectives
- Improve Biochemistry knowledge:
  - Application calculations
  - Medical panels of Clinical Chemistry
  - Reagents
- Improve technologies knowledge:
  - Analyzers
  - Calculation & calibration
- Provide customer's support:
  - Installation setup and training
  - Applications modification and creation
  - Answering to alarm, pre-analytical questions

Skills targeted
At the end of the training course, the attendee should understand the biochemistry application of Yumizen C devices, analyze if an alarm is due to technical, clinical or pre-analytical problems. Answer customer questions, train customers. Ensure independently in the device consistency and optimal performances.

Duration and Schedule
The training takes place on 1 day, begins at 9 a.m. and ends at 5 p.m. daily.

Requirements & Recommendations
Requirements: User training performed
Recommendations:

Learning methods
- Theoretical presentation
- Instruments practice
- Role-play: Instruments demonstration, alarms, answers
- Jeopardy
- Application exercises and troubleshooting
- Quiz

Yumizen C Range
Technical

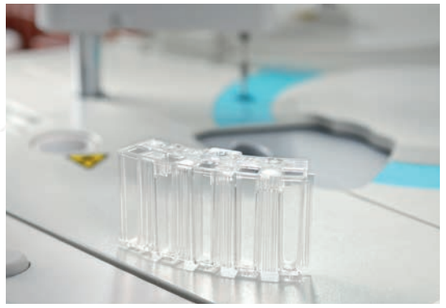
5 days
32 hours

Training Code
STD Yumizen C TECH EN 5D

Revision
July-17, 2023

Training main objectives
- Be able to provide technical support on Yumizen C range:
- Instrument Installation
- Functionality checks
- Maintenances
- Adjustments
- Improve knowledge of:
- Hydraulic
- Mechanical adjustments
- Troubleshooting
- Improve knowledge of Clinical chemistry instruments

Skills targeted
At the end of the training course, the attendee should be able to perform:
- Instrument installation
- Preventive maintenance
- Troubleshooting of the system
- Understand instrument technology and software



Duration and Schedule
The training takes place on 5 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 2 p.m.

Requirements & Recommendations
Have some prior technical experience in diagnostics systems
Been trained on" ONLINE Biochemistry beginner" or get prior biochemistry experience

Learning methods
- Theoretical presentation
- Instruments practice
- Role-play: Instruments demonstration, alarms, answers
- Jeopardy
- Application exercises and troubleshooting
- Quiz

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Courses

Hemostasis **Discovery**

1 day
7 hours

Training Code
STD HEMO DIS EN 1D

Revision
October, 2023

Training main objectives
Improve Hemostasis knowledge:
- Coagulation cascade
- Parameters

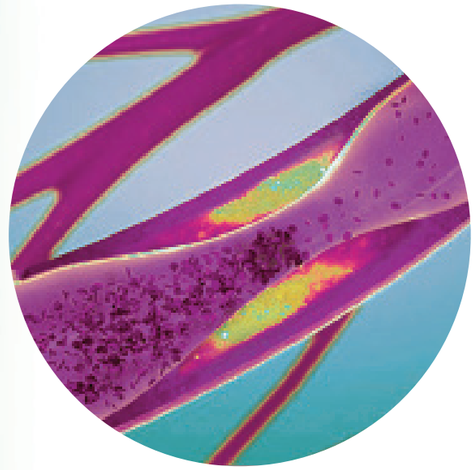
Improve technologies knowledge:
- Hemostasis instruments technologies
- Hardware description
- Software description
- Reagents description

Skills targeted
At the end of the training course, the trainee should understand the hemostasis basics and HORIBA Medical instruments main functions and technologies.

Duration and Schedule
The training takes place on 2 days begins at 9 a.m. and ends at 5 p.m.

Requirements & Recommendations
Requirements: none for this course
Recommendations: none for this course

Learning methods
- Theoretical presentation
- Instrument practice
- Jeopardy
- Reagents & spare parts manipulation



Hemostasis Range **Application**

4 days
28 hours

Training Code
STD HEMO RANGE APP EN 4D

Revision
July, 2020

Training main objectives
Improve Hemostasis knowledge:
- Measurement
- Parameters
- Reagents

Be able to use Hemostasis instruments:
- Reagent, calibration & QC handling
- Run patient sample

Be able to provide support to customers:
- Initial installation setup and training
- Applications modification and creation
- Answering questions regarding technology, alarms, pre-analytical

Skills targeted
At the end of the training course, the attendee should understand hemostasis principles, analyze if an alarm is due to technical, clinical or pre-analytical problems, answer customer questions, train customers, and independently ensure the consistency of the devices optimal performances.

Duration and Schedule
The training takes place on 4 days, begins at 9 a.m. and ends at 5 p.m. daily.

Requirements & Recommendations
Requirements: basic knowledge and experience in hemostasis
Recommendations: have previous application experience in coagulation systems.

Learning methods
- Theoretical presentation
- Instruments practice
- Role-play: Instruments demonstration, alarms
- Jeopardy
- Application exercises and troubleshooting
- Quiz

Hemostasis Range **Technical**

5 days
32 hours

Training Code
STD HEMO RANGE TEC EN 5D

Revision
Avril, 2020

Training main objectives
Improve Hemostasis knowledge:
- Coagulation cascade
- Parameters
- Reagents

Improve technology knowledge:
- Analyzers
- Calculation & calibration

Be able to use Hemostasis instruments:
- Reagent, calibration & QC handling
- Run patient sample

Be able to provide technical support:
- Installation process
- Preventive maintenances
- Adjustments
- Troubleshooting

Skills targeted
At the end of the training session, the trainee should understand basics of Hemostasis principles, be able to analyze if an alarm is due to technical, clinical or pre-analytical issues, and solve systems malfunctioning. The trainee should also be able to ensure independently the consistency of the devices optimal performances.

Duration and Schedule
The training lasts 5 days, begins at 9 a.m. and ends at 5 p.m. daily.
Last day, end of the training at 2 p.m.

Requirements & Recommendations
Recommendations: have some previous technical experience with other diagnostic systems.
Recommendations: none for this course

Learning methods
- Theoretical presentation
- Instrument practice
- Jeopardy
- Maintenance processing
- Technical exercises and troubleshooting
- Quiz

Yumizen G1500 & G1550
Yumizen G1500h & G1550h
Use

3 days
21 hours

Training Code
STD YG15XX USE EN 3D

Revision
July, 2020

Training main objectives
Improve knowledge of Hemostasis and instruments:
- Instrument technologies
- Software description
- Description of reagents
- Routine
- Specifics range

Be able to use the instruments
- Registration of reagents & QC, calibration use
- Analyze patient samples in emergency or in rack mode
- Understand technologies, alarms, pre-analytics

Be able to provide user support for:
- Customer maintenance
- Application / process settings

Skills targeted
At the end of the training, the participant must be comfortable with the use of the instrument, running samples, results interpretation. Knowing how to recognize an alarm due pre-analytical, technical or clinical problem.

Duration and Schedule
The duration of this training is 3 days and takes place from 9 a.m. till 5 p.m.

Requirements & Recommendations
Requirements:
• Basic knowledge and experience in Hemostasis
Recommendations:
• Prior experience in Hemostasis systems

Learning methods
• Theoretical presentation
• Instruments practice
• Reagent & QC reconstitution and use
• Games (questions / answers)

Yumizen G800
Yumizen G800h & G850h
Use

3 days
21 hours

Training Code
STD YG800 USE EN 3D

Revision
July, 2020

Training main objectives
Improve knowledge of Hemostasis and instruments:
- Instrument technologies
- Software description
- Description of reagents
  . Routine
  . Specifics range

Be able to use the instruments:
- Registration of reagents & QC, calibration use
- Analyze patient samples in emergency or in rack mode
- Understand technologies, alarms, pre-analytics

Be able to provide user support for:
- Customer maintenance
- Application / process settings

Skills targeted
At the end of the training, the participant must be comfortable with the use of the instrument, running samples, results interpretation. Knowing how to recognize an alarm due pre-analytical, technical or clinical problem.

Duration and Schedule
The duration of this training is 3 days and takes place from 9 a.m. till 5 p.m.

Requirements & Recommendations
Requirements:
Basic knowledge and experience in haemostasis

Recommendations:
Prior experience in Hemostasis systems

Learning methods
Theoretical presentation
Instrument practice
Reagent & QC reconstitution and use
Games (questions / answers)

Your contacts

International Training Organization and Management:
thibault.cres@horiba.com

Training planification:
https://www.horiba.com/en_en/medical/support/training/

E-training (e-learning courses and virtual classrooms):
training.med@horiba.com

HORIBA
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