TOWER CRANE
Course Catalog - 2019
France - Saint Pierre de Chandieu

Yes! We Care
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Parc d’activité Les Portes du Dauphiné
5, rue Lavoisier
69780 Saint Pierre de Chandieu (close to LYON France)

Equipment, tools of differentiation:
5 cranes representing the present range:
- HUP32-27
- IgoT85
- Igo50
- MDT219 CCS
- MDT248

2 crane elevators:
- CabIN
- TCL

5 training rooms,
1 showroom for practical teaching with 10 operating mechanisms,
Multimedia tests,
1 crane simulator.

International profile:
More than 800 trainees and visitors each year from all over the world,
Multilingual instructors (French, English, and other languages with translator...).

Find this brochure on our web site:
www.manitowoc.com
https://www.manitowoccranes.com/fr-FR/Parts_Services/Training/TechnicalLearningCenter

Contact us:
cdf@manitowoc.com
+33 4 69 85 92 20
+33 6 15 24 51 00
Registration: 
In 2019 registration forms will disappeared.

Registration will be online! 
Manitowoc.com
Manitowoc direct
My applications
Technical Learning center (tower Europe)

How will it work?
Please ask for our tutorial to activate access
And use the LMS (Learning management System)

Validating a course will mean accepting Manitowoc global invoicing conditions.

You will have the visibility on courses:
A course will run with a minimum of 4 trainees.
A course will be complete with a maximum of 6 trainees.

So up to now prepare your 2019 training plan!

Cost: 
As an example training price is 1 473 € excluding VAT for one week course.
Evening accommodation is not included, we can help you if necessary.

Trainees journey: 
Please inform the Training Center of the trainees travel arrangements. Transport is not included, we can help you if necessary.

Clothing: 
All our training programs involve numerous practical exercises outside. Please let the trainees know that they should therefore bring their own PPE (personal protection equipment).
GME / GMA “Erection courses”

GME ERECTORS

GME TELESCOPING

GMA ERECTORS

HUP ERECTION

IgoT ERECTION

Igo ERECTION

CRANE ELEVATORS

CabIN

TCL
GME Trouble-shooting courses

GME field technician

Level 3
Expert
Dealer only

CERTIFICATION

Level 2
Advanced

CCS trouble-shooting
CraneSTAR Diag

CCS Technology

GME trouble-shooting cranes in « 8 » V3

GME trouble-shooting cranes in « 8 » non V3

Level 1
Basics

POTAIN2
Electrical components

POTAIN1
Commissioning of GME/GMA
GMA Trouble-shooting courses

GMA field technician

Level 3
Expert
Dealer only

Level 2
Advanced
HUP trouble-shooting
CraneSTAR Diag

Level 1
Basics
POTAIN2
Electrical components
POTAIN1
Commissioning of GME/GMA
Course Summary

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## Crane erection

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HUP erection

Erection and commissioning of HUP cranes

Aim/Course goals:
- To provide complete knowledge of erection and commissioning of HUP cranes.

Program:
- Provide basic knowledge of HUP cranes erection and commissioning,
- Load curves,
- Erection / dismantling:
  - Installation on job site,
  - Raising of mast,
  - Ballasting,
  - Raising of the jib in all positions,
  - Safety device adjustments,
  - Installation on transport axles,
  - Top zone.
- Using the technical documentation,
- Study of the wiring diagram,
- Preventive maintenance of the crane,

Trainers / contacts:
- D. FOREST Technical trainer
- P. DARJINOFF technical trainer
- G. JOURNAY Training Center Manager

Materials:
- HUP 32-27

Training methods:
- Lectures and practical exercises.
- Use of specific documents.
- Erection, dismantling, adjustments on HUP cranes with CCS and remote control.

Validation of knowledge:
- Delivery of certificate

Cost:
- Training cost: 1104 € excluding VAT
- Meals: 45 € excluding VAT

Prerequisites
The trainees
- must be over 18 years old,
- must be declared fit to work at great heights.

Duration
3 days – 21 hours

Capacity
6 students
Igo erection

Erection and commissioning of Igo cranes

Aim/Course goals:
• To provide complete knowledge of erection and commissioning of Igo cranes

Program:
• Erection of Igo cranes:
  – Load curves,
  – Erection/dismantling,
  – Transport axles,
  – Adjustments of safety devices,
  – Using the technical documentation.

Training methods:
• Lectures and practical exercises.
• Use of specific documents.
• Erection, dismantling, adjustments on Igo50.

Trainees / contacts:
• D. FOREST Technical trainer
• G. JOURNAY Training Center Manager

Materials:
• Igo50 crane

Validation of knowledge:
• Delivery of certificate

Cost:
Training cost: 1104 € excluding VAT
Meals: 45 € excluding VAT

Prerequisites
The trainees
- must be over 18 years old,
- must be declared fit to work at great heights.

Duration
3 days – 21 hours

Capacity
6 students
IgoT erection

Erection and commissioning of IgoT cranes

Aim/Course goals:
• To provide complete knowledge of erection and commissioning of Igo T cranes.

Program:
• Provide basic knowledge of Igo T cranes erection and commissioning,
• Load curves,
• Erection / dismantling:
  – Installation on job site,
  – Raising of mast,
  – Ballasting,
  – Raising of the jib in all positions,
  – Telescoping with a 6 m mast,
  – Reduction of the jib to 47 m or 42 m,
  – Safety device adjustments,
  – Installation on transport axles,
  – Top zone.
• Using the radio control,
• Using the technical documentation,
• Study of the wiring diagram,
• Preventive maintenance of the crane.

Training methods:
• Lectures and practical exercises.
• Use of specific documents.
• Erection, dismantling, adjustments on IgoT85.

Trainers / contacts:
• D. FOREST Technical trainer
• G. JOURNAY Training Center Manager

Materials:
• IgoT85

Validation of knowledge:
• Delivery of certificate

Cost:
Training cost: 1 473 € excluding VAT
Meals: 75 € excluding VAT

Prerequisites
The trainees
- must be over 18 years old,
- must be declared fit to work at great heights.

Duration
1 week – 28 hours

Capacity
6 students
Aim/Course goals:
- To provide complete knowledge of telescoping GME cranes.

Program:
- Crane technology and terminology,
- Mechanical basic knowledge,
- Application: Balancing, overturning, stability of the crane.
- Load curves,
- Cranes implementation,
- Learning erection sequences for GME types,
- Hydraulics basic knowledge: cylinders, principles and settings.
- Electrical basic knowledge,
- Machinery supply, connections,
- Wire ropes and slings,
- Maintenance, wear criteria, exchanges.
- Indicators and safety devices,
- The brakes: principles, settings.
- Technical manual exploitation,
- Practical realization: telescoping down.

Training methods:
- Lectures and practical exercises
- Use of specific documents.
- Telescoping, telescoping down, adjustments on MDT 248.

Trainers / contacts:
- C. PRELY Technical trainer
- G. JOURNAY Training Center Manager

Materials:
- MDT 248 / MDT219CCS

Validation of knowledge:
- Delivery of certificate

Prerequisites
The trainees
- must be over 18 years old,
- must be declared fit to work at great heights.

Duration
1 week – 28 hours

Capacity
6 students

Cost:
Training cost: 1473 € excluding VAT
Meals: 75 € excluding VAT
Aim/Course goals:
• To provide complete knowledge on the internal crane elevator CabIN POTAIN: erection, commissioning and maintenance.

Program:
• CabIN presentation,
• Current regulations,
• Study of the equipped mast sections,
• Fitting the mast sections with internal elevator on the chassis,
• Commissioning, tests,
• Preventive and corrective maintenance procedures,
• Safety and evacuation procedure,
• Dismantling the mast equipped with CabIN,
• Safety instructions,
• Checks conforming to specification,
• Retrofit,
• Packaging precautions,

Training methods:
• Lectures and practical exercises.
• Use of specific documents.
• Practical exercises on CabIN.

Trainers / contacts:
• D. FOREST  Technical trainer
• P. DARJINOFF  Technical trainer
• G. JOURNAY  Training Center Manager

Materials:
• CabIN dedicated

Validation of knowledge:
• Delivery of certificate

Cost:
Training cost: 1473 € excluding VAT
Meals: 75 € excluding VAT

Prerequisites
The trainees
- must be over 18 years old,
- must be declared fit to work at great heights.

Duration
1 week – 28 hours

Capacity
6 students
Aim/Course goals:
• To provide complete knowledge of external crane elevator TCL.

Program:
• TCL presentation,
• Current regulations,
• Study of the elevator and the equipment,
• Fitting the external elevator on MDT 248 crane,
• Commissioning and tests,
• Preventive and corrective maintenance procedure,
• Safety and evacuation procedure,
• Dismantling the elevator,
• Checks conforming to specification,
• Packaging precautions.

Training methods:
• Lectures and practical exercises.
• Use of specific documents.
• Practical exercise on TCL.

Trainers / contacts:
• D. FOREST  Technical trainer
• G. JOURNAY  Training Center Manager

Materials:
• TCL

Validation of knowledge:
• Delivery of certificate

Cost:
Training cost: 1104 € excluding VAT
Meals: 45 € excluding VAT

Prerequisites
The trainees
- must be over 18 years old,
- must be declared fit to work at great heights.

Duration
3 days – 21 hours

Capacity
6 students
## Trouble-shooting

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**Aim/Course goals:**
- To commission and adjust Potain cranes.

**Program:**
- Presentation of Potain tower cranes range,
- Load curves of tower cranes,
- Study of the definition and functions of the electrical component,
- Main supply of the crane,
- Adjustments of the safety devices,
- Description and location,
- Working principle,
- Adjustment procedure: Limit switches, moment cutout, MSWL, specific safety devices.
- Study and adjustment of brake and weather-vaning system,
- Adjustment of system Dialog Visu1 and 2.

**Training methods:**
- Lectures and practical exercises.
- Use of specific documents.
- Practical exercise on MDT248 and IgoT85.

**Trainers / contacts:**
- P. DARJINOFF  
  Technical trainer
- G. JOURNAY  
  Training Center Manager

**Materials:**
- MDT248 and IgoT85
- Crane mechanisms in showroom

**Validation of knowledge:**
- Delivery of certificate

**Prerequisites**
The trainees
- must be over 18 years old,
- must be declared fit to work at great heights.

**Duration**
1 week – 28 hours

**Capacity**
6 students

**Cost:**
Training cost: 1 473 € excluding VAT
Meals: 75 € excluding VAT
POTAIN 2
Electrical components

Aim/Course goals:
• Introduction to electrical repairs on tower cranes.

Program:
• Technology, operation and symbolization of the electric components,
• Methods of measurement of the electric quantities,
• Study of the wiring diagram of a 3-speed winch and realization of the sequential diagram of operation,
• Realization practices wiring of the studied equipment,
• Methods of diagnosis of problems,
• Exercise of trouble-shooting,
• Introduction to frequency converter,
• Introduction to radio control system,
• Introduction to CAN bus system adapted to Potain cranes,
• Putting into service and adjustment of frequency converter.

Training methods:
• Lectures and practical exercises.
• Use of specific documents.
• Practical exercise on bench.

Trainers / contacts:
• P. DARJINOFF Technical trainer
• G. JOURNAY Training Center Manager

Materials:
• Specific bench and mechanisms in showroom

Validation of knowledge:
• Delivery of certificate

Cost:
Training cost: 1 473 € excluding VAT
Meals: 75 € excluding VAT

Prerequisites
The trainees
- must be over 18 years old,
- must be declared fit to work at great heights.

Duration
1 week – 28 hours

Capacity
6 students
GME in “8” no V3 trouble-shooting

Aim/Course goals:
- To perform corrective maintenance of tower cranes of MD range and MDT98 to MDT218 A range,
- To update knowledge of the mechanisms of tower cranes equipped with frequency converters,
- To perform trouble-shooting of tower cranes equipped with frequency converters,
- To perform brake adjustments of different mechanisms,
- To acquire a trouble-shooting methodology.

Program:
- Study of mechanisms controlled by frequency converters of MD and MDT cranes: Hoisting winch LVF (KEB), Slewing mechanism RVF (ABB) ACS800/880, Trolleying winch DVF (KEB).
- Study of functioning,
- Adjustment, configuration and special functions,
- Study of parameters,
- Trouble-shooting,
- Study of wiring diagrams,
- Study of functioning and adjustment of brakes on each mechanisms,
- Practical workshop of trouble-shooting,
- Adjustment of VISU indicators,
- Erection, commissioning of GTMR 336 cranes: Safety devices, Brakes, Transport axles, Raising the jib, Extension mast, Using the technical documentation.

Training methods:
- Lectures and practical exercises.
- Use of specific documents.
- Practical exercise on bench.

Trainers / contacts:
- P. DARJINOFF Technical trainer
- G. JOURNAY Training Center Manager

Materials:
- Crane mechanisms in showroom

Validation of knowledge:
- Delivery of certificate

Cost:
- Training cost: 1,473 € excluding VAT
- Meals: 75 € excluding VAT

Prerequisites
The trainees must be over 18 years old and have to be validated in POTAIN 1 and POTAIN 2.

Duration
1 week – 28 hours

Capacity
6 students
GME in “8” V3
trouble-shooting

Aim/Course goals:
• To perform corrective maintenance of MDT 248/268/308/368 tower cranes,
• To update knowledge of the mechanisms of tower cranes equipped with frequency converters and processing unit V3,
• To perform trouble-shooting of tower cranes equipped with frequency converters and processing unit V3,
• To perform brake adjustments of different mechanisms,
• To acquire a trouble-shooting methodology.

Program:
• Mechanisms controlled by frequency converters of MDT cranes: Trolley winch DVF (KEB), Hoisting winch LVF OPTIMA (KEB), Slewing mechanism RVF OPTIMA+ (ACS800/880), 75/100 LVF (KEB).
• Processing unit V3,
• Adjustment, configuration and special functions,
• Improvement of trouble-shooting methods.

Training methods:
• Lectures and practical exercises.
• Use of specific documents.
• Practical exercise on bench.

Trainers / contacts:
• P. DARJINOFF Technical trainer
• G. JOURNAY Training Center Manager

Materials:
• Crane mechanisms in showroom

Validation of knowledge:
• Delivery of certificate

Cost:
Training cost: 1 473 € excluding VAT
Meals: 75 € excluding VAT

Prerequisites
The trainees must be over 18 years old and have to be validated in POTAIN 1 and POTAIN 2.

Duration
1 week – 28 hours

Capacity
6 students
CCS technology and trouble-shooting

Aim/Course goals:
• Commissioning adjustment and trouble-shooting of CCS cranes.

Program:
• Technology of tower cranes CCS,
• Introduction to CAN bus,
• Reading data sheets and exploitation of technical manuals,
• Load curve of a CCS crane,
• Presentation of the main components: Joystick, encoders, load pin, module, screen,
• Introduction of new features,
• Navigation using the Jog Dial,
• Setting: limit switches, load limiters and specific safety devices,
• Operating principles, detailed commissioning procedures, practical exercises,
• Application to the commissioning of indicators,
• Studies and settings of the various movements: Hoisting, Trolleying and Slewing,
• A crane commissioning practical exercise,
• Replacing a safety device like an encoder,
• Study of CAN networks and their components,
• Practical exercise to identifying components and test the CAN networks,
• Study of integrated diagnostic menus,
• Studies of CCS modules and their operations,
• Practical exercise of navigation and commissioning from the module (without cab),
• Study of wiring diagram,
• Trouble-shooting exercises,
• The frequency inverters, specific settings and functions,
• CraneSTAR diag.

Training methods:
• Lectures and practical exercises.
• Use of specific documents.
• Practical exercise on MDT219 CCS crabe and bench.

Trainers / contacts:
• P. DARJINOFF Technical trainer
• G. JOURNAY Training Center Manager

Materials:
• MDT219 CCS crane & specific bench

Validation of knowledge:
• Delivery of certificate

Cost:
Training cost: 1473 € excluding VAT
Meals: 75 € excluding VAT

Prerequisites
The trainees must be over 18 years old and must have knowledge on tower crane maintenance.

Duration
1 week – 28 hours

Capacity
6 students
Aim/Course goals:
- CCS cranes – Update.
- Last CCS version
- HPL winch

Program:
- CCS schematic update,
- Components update,
- Bus can update,
- Operating principles, commissioning procedures update,
- CCS Screen update
- New functions,
- Feedback from users,
- Feedback after practice,
- Trouble-shooting methodology,
- CraneSTAR diag.
- HPL range and 75HPL30,
- CCS and no CCS architecture (combinator mapping),
- Specific features (optimizez power, Power control, maximum speed limit,...),
- Monitoring of the motor temperature, gearbox and resistance box,
- Service break management,
- Electrical cabinet architecture,
- Setting the frequency converter,
- Use of degraded and local mode.

Training methods:
- Lectures and practical exercises.
- Use of specific documents.
- Practical exercise on MDT219 CCS crane and bench.

Trainers / contacts:
- P. DARJINOFF Technical trainer
- G. JOURNAY Training Center Manager

Materials:
- MDT219 CCS crane & specific bench

Validation of knowledge:
- Delivery of certificate

Cost:
- Training cost: 736 € excluding VAT
- Meals: 30 € excluding VAT

Prerequisites
The trainees must be over 18 years old and must have validated CCS technology and trouble-shooting course.

Duration
2 days – 14 hours

Capacity
6 students
Aim/Course goals:
- To carry out trouble-shooting and adjustment of HUP cranes.

Program:
- Review of CCS technology relative to GMA cranes,
- Can Bus schematic,
- Can Bus technology,
- Safety components,
- Safety schematic of the crane,
- Feedback from the radio: position / messages,
- Safety devices commissioning,
- Setting principle,
- ABB380 converter,
- CCS: entries and escapes,
- Trouble-shooting methodology.

Training methods:
- Lectures and practical exercises.
- Use of specific documents.
- Practical exercise on HUP bench.

Trainers / contacts:
- P. DARJINOFF Technical trainer
- G. JOURNAY Training Center Manager

Materials:
- HUP32-27 crane & specific HUP bench

Validation of knowledge:
- Delivery of certificate

Cost:
Training cost: 1104 € excluding VAT
Meals: 45 € excluding VAT

Prerequisites
The trainees must be over 18 years old and must be validated on HUP erection course.

Duration
3 days – 21 hours

Capacity
6 students
How to use CraneSTAR Diag system

**Aim/Course goals:**
How to use the remote diagnostic with the new CraneSTAR Diag system.

**Program:**
- Presentation and fonctionnality of CraneStar Diag,
- Diagnostic menus of the CCS system,
- The real type diagnostic.

**Training methods:**
- Lectures and practical exercises.
- Use of specific documents.
- Practical exercise on CCS bench.

**Formateurs / correspondants :**
- P. DARJINOFF  Formatrice technique
- G. JOURNAY  Responsable CDF

**Materials:**
- MDT219 CCS crane & specific bench

**Validation of knowledge:**
- Delivery of certificate

**Prerequisites**
The trainees must be over 18 years old and expert on POTAIN cranes.

**Duration**
1 day – 7 hours

**Capacity**
6 students

**Cost:**
Training cost: 368 € excluding VAT
Meals: 15 € excluding VAT
Aim/Course goals:
- This is only a test based on global knowledges.
- Mecanic / Frequency converters / trouble-shooting / maintenance / new technologies.

Program:
- Setting weather vane,
- Trouble-shooting,
- Orientation converter configuration,
- Visu adjustment & limit switch,
- Erection converter specific functionalities,
- Preventive maintenance,
- CCS technology,
- HUP technology.

Training methods:
- ½ day Tests on benches with all technical documents available.

Trainers / contacts:
- P. DARJINOFF Technical trainer
- G. JOURNAY Training Center Manager

Materials:
- Training room, specific documents
- Crane mechanisms in showroom

Validation of knowledge:
- Delivery of a specific certificate (card) & training passport
- Renewal every 3 years

Cost:
- Training cost: 210 € excluding VAT
- Meals: 15 € excluding VAT

Prerequisites
The trainees must be over 18 years old and expert on POTAIN cranes.

Duration
½ day – 4 hours

Capacity
2 students
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Aim/Course goals:
• Global knowledge of tower cranes.
• Presentation of new product and technologies.

Program:
• Introduction to the tower cranes,
• Cranes slewing from the bottom: The range (quotations).
• Tour to CHARLIEU or MOULINS plants,
• Cranes slewing from the top: The range (quotations).
• Electrical equipment.
• Mechanisms / Peripherals.

Training methods:
• Lectures and practical exercises.
• Use of specific documents.
• Practical exercise on cranes and bench.

Trainers / contacts:
• D. FOREST Technical trainer
• G. JOURNAY Training Center Manager

Materials:
• Training room, specific documents
• An area equipped with 5 cranes: MDT219 CCS, MDT248, Igo50, IgoT85 and HUP32-27
• Crane mechanisms in showroom
• Crane simulator for crane operator

Validation of knowledge:
• Delivery of certificate

Cost:
• Training cost: 1 473 € excluding VAT
• Meals: 75 € excluding VAT

Prerequisites
Everyone who have to work on tower cranes.

Duration
1 week – 28 hours

Capacity
8 students
Access

MANITOWOC CRANE GROUP FRANCE SAS
Parc d’Activité les Portes du Dauphiné,
5, rue Lavoisier
69780 SAINT PIERRE DE CHANDIEU

GPS coordinates SAINT PIERRE DE CHANDIEU:
Latitude: 45° 38' 47" N
Longitude: 05° 00' 53" Est
Regional headquarters

**Americas**
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Tel: +1 414 760 4600

**Europe and Africa**
Dardilly, France - TOWERS
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**China**
Shanghai, China
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