

Training Courses Catalog

2023 Edition



Reference: ENDE23L019

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1. Introduction

Thank you for your interest in our training sessions!

Our offers for year 2023 keep their focus on our two main themes:

- Training in the use of CIVA software,
- Training on reliability in NDE.

Our training material evolving constantly, being updated with your feedback, new features and constant improvements in CIVA.

This year, our team mainly offer in-person CIVA software training sessions. Online full training sessions will be provided only upon request. Thus, for example, for a training session usually under the course of 4 days of attendance, EXTENDE can offer a format made of 2 online sessions of 2 days each (6 hours per day). Of course, training sessions that require less than 4 days are also possible, in a similarly adapted format.

In 2023, we plan to hold the following intercompany training sessions:

- 4 CIVA intercompany training sessions in France,
- 2 CIVA intercompany training sessions in VA, U.S.A.,
- 2 "Reliability in NDE" training sessions in France.

For all our courses, it is recommended that participants have basic knowledge in the field of NDT (and in statistics for reliability in NDE). The courses described in this catalog alternate periods of lectures and large periods of practical use with CIVA software on a PC through a set of application examples.

For your information, in 2022:	
The average satisfaction rate of our	
CIVA training courses reached 18,1 / 20	
 The average satisfaction rate of our reliability 	
in NDE training courses reached 18,5 / 20	
 116 trainees registered to our training sessions 	

An evaluation of the trainees' knowledge will be performed before and after the training session, in order to assess their progress.



2. The trainers

In total, 8 people at EXTENDE are in charge of the training sessions. COFREND certified for most of them in different techniques, each of the trainers has their own area of expertise, but all of them are CIVA experts and experienced in giving classes.



Mr. Anouar Kalai, CIVA trainer, ET L3. He takes care of studies, support, and is also a Flux (FEM) expert.



Dr. Bastien Clausse, CIVA and Reliability in NDE trainer. He takes care of studies, support, and R&D projects.



Ms. Laura Clément, CIVA trainer, RT L2. She takes care of studies, support, and R&D projects.



Mr. Jérôme Dudous, CIVA trainer. He takes care of studies and support.



Mr. Roman Fernandez, CIVA trainer, RT L3, International Development Manager.



Mr. Fabrice Foucher CIVA and Reliability in NDE trainer, ET L3, Business Manager.



Ms. Erica Schumacher, CIVA trainer, Vice President of our premises in the U.S.A..



Dr. Sébastien Lonné, CIVA trainer, UT L3, Technical Manager.



3. CIVA training course



3.1 Choosing the right course

Come discover CIVA 2023 and its new features!

Since CIVA offers more and more solutions and new modules, we want the CIVA users' community to take full advantage of this software and all its capabilities. By participating in these training courses, you will be able to maximize the benefits of CIVA, know its limitations and get sufficient knowledge of the calculation models to perform more efficient simulations.

EXTENDE provides comprehensive training courses for CIVA software, the expertise and modelling platform for NDT. These courses are intended for CIVA users, future CIVA users, or people wishing to understand the modelling possibilities and benefits of using the software.

Different users require different knowledge and have different expectations for CIVA. That is why EXTENDE provides different kinds of training courses, that will allow the trainee to choose the one that fits their needs. Details of all the courses are described in §5.

The different training courses provided by EXTENDE:

3.2 Inter-company training sessions:

You will find detailed programs in this catalogue. Such sessions last 4 or 5 days and are held in or near our facilities.

Following the feedback received from the past sessions, and in order to have enough time to go into the software in depth, CIVA UT inter-company sessions last 4 days. For these intercompany sessions, training on an additional module is proposed optionally and starts during the 4th day, the duration of the full course being 5 days.

For each session, EXTENDE proposes one of the following extensions: CIVA RT/CT, CIVA ET, CIVA GWT, CIVA ATHENA2D, CIVA FIDEL2D, CIVA SHM, CIVA TT or CIVA Analysis (see schedule in §6).

For people interested only in the additional module, it is possible to register for the last 2 days only.

For people interested only in the UT module, it is possible to register for the first 4 days only.

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3.3 Dedicated introductory courses:

This type of training session can be organized, either at the customer's facilities or in EXTENDE's premises, depending on the customer's preference. To take advantage of this option, the sessions are scheduled for a maximum of six people.

We can provide training sessions for more than six participants, but in that case, in order to ensure that each trainee gets the necessary attention for a satisfying course, we will provide two trainers with an additional cost for the second trainer.

The duration of these sessions depends on the number of CIVA modules to be covered. Please contact us for more details.

3.4 Full Dedicated "online" introductory courses:

We also propose a dedicated "online" course to CIVA software when in-person training courses are not easy to organize (distance, availabilities...). This session is done via a "WebEx" conference. Thus, for example, for a training session usually under the course of 4 days of attendance, EXTENDE offers a format made of 2 online sessions of 2 days each (6 hours per day). Of course, training sessions that require less than 4 days are also available, in a similarly adapted format. This session is scheduled for a maximum of six people from the same company.

3.5 Short dedicated "online" introductory course:

This session is done via a "WebEx" conference and is organized with one or two remote session(s) of 3 hours. This session is mainly proposed in addition to a complete "in-person" course:

- Before a complete course, this session helps to quickly learn the very basics of the software in order to be efficient as soon as you start using it. It is strongly recommended to follow up with a complete course a few months after this short introductory one, to have a larger overview of the capabilities of CIVA.
- After a complete course, such short online session is well suited for reminders, or to provide additional information, or again to answer users' questions after some time when they could practice with the software

3.6 Dedicated advanced courses:

With this option, a questionnaire is sent before the beginning of the session to guide the program according to your priorities. Training can take place on the customer's site or in our facilities. The customer will send some specific application cases a few days before the beginning of the session, so that the trainer can prepare the modeling of these cases. It is recommended to have followed an introductory course first before an advanced one.



4. Reliability in NDE training course



4.1 Inter-company training sessions:

You will find detailed programs in this catalogue. Such sessions last 3 days, usually from Tuesday to Thursday, and are held in or near our facilities.

4.2 Dedicated courses:

This type of training session can be organized, either at the customer's facilities or in EXTENDE's premises, depending on the customer's preference. To take advantage of this option, the sessions are scheduled for a maximum of six people.



5. Program of the sessions

5.1 CIVA Inter-company introductory course: "Introduction to CIVA & applications"

5.1.1 Schedule for 5 days of training in EXTENDE's facilities:



Length: 5 days

 Day 1: General introduction on CIVA Presentation of CIVA UT / Beam computation Exercises of practical applications with CIVA UT / Beam computation 	 Day 2: Presentation of CIVA UT / Inspection Simulation Exercises on practical applications with CIVA UT / Inspection Simulation 		
 <u>Day 3:</u> Presentation of Phased-Array UT sensors simulation settings Exercises on practical applications with Phased-Array UT sensors 	 Day 4: Presentation and practical applications of the POD module and CIVA SCRIPT feature Build CIVA UT configurations with less guidelines Open discussions on CIVA use and applications Presentation of one additional CIVA module 		
	 Practice on one additional CIVA module 		
 <u>Day 5:</u> Practice on one additional CIVA module 			

<u>Objectives</u>: After the course, the trainees will be able to build a CIVA simulation configuration autonomously. They will obtain sufficient knowledge of the calculation models to have a clear idea about the capabilities and the limits of the software.

<u>**Target audience:**</u> NDE engineers and practitioners wishing to get some knowledge on CIVA capabilities and/or wishing to use it.



Prerequisite: A minimum knowledge in NDT (equivalent level 2).

Training documents: The trainees will receive a paper and an electronic copy of the training book and an electronic copy of the presentations.

Price: 525 € (not including taxes)/person/day for courses in EXTENDE's facilities

When: See Part 6 for the 2023 schedule. Additional sessions can be organized on demand if enough people are interested.

Organization details: The sessions take place in EXTENDE's premises:

14 Avenue Carnot 91300 Massy France

EXTENDE provides sufficient computers for each participant. Trainees are allowed to bring their own laptop, however, be aware that CIVA is easiest to use with a graphic resolution of at least 1280x1024.

EXTENDE delivers all the necessary licenses to use CIVA during the course. EXTENDE will provide lunch each day.



5.1.2 Schedule for 3.5 days of UT + 1.5 day for CIVA ET or CIVA RT/CT in the U.S.A. (Norfolk, VA, U.S.A.):



Length: 5 days

 Day 1: General introduction on CIVA Presentation of CIVA UT / Beam computation Exercises on practical applications with CIVA UT / Beam computation 	 Day 2: Presentation of CIVA UT / Defect Response Exercises on practical applications with CIVA UT / Defect Response 		
 Day 3: Presentation on Phased-Array UT sensor simulation settings Exercises on practical applications with Phased-Array UT sensors Presentation and practical applications of the POD module in CIVA UT 	 Day 4: Open discussions on CIVA use and applications Presentation of CIVA ET or CIVA RT/CT* * see Part 6 for 2023 calendar 		
Day 5: Practice on one additional CIVA module (CIVA ET or CIVA RT/CT)			

Practice on one additional CIVA module (CIVA ET or CIVA RT/CT)

For people interested only in the UT module, it is possible to register only for the first 4 days.

For the dates, please refer to chapter 6.

<u>Objectives</u>: After the course, the trainees will be able to build a CIVA simulation configuration autonomously. They will obtain sufficient knowledge of the calculation models to have a clear idea about the capabilities and the limits of the software.

<u>**Target audience:**</u> NDE engineers and practitioners wishing to get some knowledge on CIVA capabilities and/or wishing to use it.

Prerequisite: A minimum knowledge in NDT (level 2 equivalent).

<u>**Training documents:**</u> The trainees will receive a paper and an electronic copy of the training book and an electronic copy of the presentations.



<u>Price:</u> US\$ 550 (not including taxes) / person / day for courses in *Norfolk, VA* near EXTENDE Inc. facilities.

<u>When:</u> See Part 6 for the 2023 schedule. Additional sessions can be organized on demand if enough people are interested.

Organization details: The place is not yet exactly determined at that time, please contact us.

Trainees are expected to bring their own laptop. Be aware that CIVA is easiest to use with a graphic resolution of at least 1280x1024. EXTENDE delivers all the necessary licenses to use CIVA during the course. EXTENDE will provide lunch each day.



5.2 Dedicated CIVA introductory course: "Introduction to CIVA & applications" in person

EXTENDE proposes dedicated introductory training sessions organized from 2 to 5 days. **Based on the standard program described in 5.3.1**, the agenda and the training duration are adapted to the customer's request. It can be organized either at the customer's facilities or in EXTENDE's premises, depending on the customer's preference. At the end of the course, the last day or half-day can be dedicated to the preparation of customer cases, but without advanced preparation from EXTENDE.

Length: 2 to 5 days

<u>Objectives</u>: After the course, the trainees will be able to build a CIVA simulation configuration autonomously. They will obtain sufficient knowledge of the calculation models to have a clear idea about the capabilities and the limits of the software.

<u>**Target audience:**</u> NDE engineers and practitioners wishing to get some knowledge on CIVA capabilities and/or wishing to use it.

Prerequisite: A minimum knowledge in NDT (level 2 equivalent).

<u>**Training documents:**</u> The trainees will receive a paper and an electronic copy of the training book and an electronic copy of the presentations.

<u>Price:</u> 1550 €* (not including taxes) / day or US\$ 1650* / day (for sessions in U.S.A. or Canada). This price does not include travel fees. *Price for a group of 6 people maximum. Beyond this number of participants, additional costs will be applied.

When: Organized on demand and depending on availabilities from our trainers.

Organization details:

- If the session takes place at EXTENDE's premises, we provide computers for each participant. Trainees are allowed to bring their own laptop, however, be aware that CIVA is easiest to use with a graphic resolution of at least 1280x1024.
 EXTENDE delivers all the necessary licenses during the course. EXTENDE will provide lunch each day.
- If the session is organized on a customer's site, the trainer's travel fees will be charged at a price defined in the official proposal. The customer is in charge of the organization of the training room (computers, projector, lunch, etc.).
 EXTENDE delivers all the necessary licenses to use CIVA during the course.
- If the session is organized at Norfolk, VA in the U.S.A., additional fees will be charged at a price defined in the official proposal, for computers and facility rental. We provide computers to use CIVA in groups of 1 or 2. Trainees are allowed to bring their own laptop, however, be aware that CIVA is easiest to use with a graphic resolution of at least 1280x1024. EXTENDE delivers all the necessary licenses during the course. EXTENDE will provide lunch each day.



5.3 Complete CIVA online course: "Introduction to CIVA & applications"

EXTENDE also proposes a dedicated "online" course to CIVA software when in-person training courses are not easy to organize (distance, availabilities...). The duration and organization of the training course are adapted to the customer's interest in (a) specific module(s). For example, for a UT module training course usually under the course of 4 days of attendance, EXTENDE offers a format made of different online sessions of 2 consecutive days each (6 hours per day). Of course, training sessions that require less than 4 days are also available, in a similarly adapted format. This session is scheduled for a maximum of six people from the same company.

Length: 2 to 8 days, split in different groups of no more than 2 consecutive days maximum. Between each session, the trainees will be able to practice on their own and do some exercises.

<u>Objectives</u>: After the course, the trainees will be able to build a CIVA simulation configuration autonomously. They will obtain sufficient knowledge of the calculation models to have a clear idea about the capabilities and the limits of the software.

<u>**Target audience:**</u> NDE engineers and practitioners wishing to get some knowledge on CIVA capabilities and/or wishing to use it.

Prerequisite: A minimum knowledge in NDT (level 2 equivalent).

<u>**Training documents:**</u> The trainees will receive an electronic copy of the training book and an electronic copy of the presentations.

<u>Price:</u> 1050 €* (not including taxes) / day or US\$ 1425* / day (for sessions in the U.S.A. or Canada).

*Price for a group of 6 people maximum,

When: Organized on demand and depending on availabilities from our trainers.

Organization details:

- This session is done via a "WebEx" conference (or any other device provided by the customer if the WebEx is not compatible with the customer's IT system).
- The customer is in charge of the organization of trainees' computers.
- EXTENDE delivers ahead of time all the necessary licenses to use CIVA during the course.



5.4 Short CIVA online course (before or after a full session)

1) Before a complete training, EXTENDE can provide new customers with a tutorial course for software application. This is a very short course, based on a presentation, demonstration, and a practical application on a very simple configuration.

This session is done remotely via a "WebEx" conference, with the purpose to explain the overall functionalities of the software.

The content of the short course is the following:

- CIVA overview
- Brief presentation of the graphical user's interfaces
- Demo: How to prepare a configuration, run the computation and save
- Demo: Introduction to imaging
- Demo: Presentations of the basic analysis tools
- Get you started on a simple example

The duration of this session is 3 hours for one module. Another session of 3 hours, which can be delivered later, is necessary if all the modules are undertaken.

2) This « 'short » online » course is also very well suited for a « reminder session », questions/answers or to provide further information after an initial complete training.

Price:

1. 525 € / 3 hours – 950 € / 6 hours

2. US\$ 800 / 3 hours - US\$ 1425 / 6 hours for U.S. and Canadian customers



5.5 Dedicated CIVA advanced courses: "To go further with CIVA for your applications" in person

EXTENDE completes its offer of training courses with more customized sessions on particular subjects that will need a detailed description of the customer's targeted configurations.

This format is guite open. It allows, thanks to a preparation form completed by the customer, to focus the course on particular points from the basic program, as well as to define specific application cases. These configurations will be communicated by the customer at least 15 days before the beginning of the session, and EXTENDE will plan specific preparation work with some examples. Such a session cannot last more than 5 consecutive days, but, on the customer's demand, several sessions can be defined and organized at different intervals.

Price: To be defined according to the course duration and the necessary preparation time.

When: Organized on demand and depending on the availability of our trainers.

Target audience: NDE engineers and practitioners wishing to use CIVA for more advanced applications.

Prerequisite: A minimum knowledge in NDT (level 2 equivalent) and some experience with using CIVA software.

Organization details:

- If the session takes place at EXTENDE's premises, we provide computers for each participant. Trainees are allowed to bring their own laptop, however, be aware that CIVA is easiest to use with a graphic resolution of at least 1280x1024. EXTENDE delivers all the necessary licenses during the course. EXTENDE will provide lunch each day.
- If the session is organized at Norfolk, VA in the U.S.A., additional fees will be charged at a price defined in the official proposal, for computers and facility rental. We provide computers to use CIVA in groups of 1 or 2. Trainees are allowed to bring their own laptop, however, be aware that CIVA is easiest to use with a graphic resolution of at least 1280x1024. EXTENDE delivers all the necessary licenses during the course. EXTENDE will provide lunch each day.
- If the session is organized on the customer's site, the trainer travel fees will be charged at a price defined in the official proposal. The customer is in charge of the organization of the training room (computers, projector, lunch, etc.). EXTENDE delivers all the necessary licenses to use CIVA during the course.



5.6 Reliability in NDE: Inter-company course



The course is scheduled for 3 days in EXTENDE's facilities:

Length: 3 days

 Day 1: General introduction Measurements and uncertainties (definition & statistical tools) To produce a sensitivity analysis & manage the influential parameters 	 Day 2: Statistical indicators to evaluate reliability in NDE: POD, PFA, NPV, PPV, ROC, Sizing Accuracy, POR 		
 Day 3: The standard framework (Deterministic and statistical approaches) Innovative methodologies (About the use of simulation in NDE, MAPOD, "advanced POD" models & perspectives) 			

Objectives: The course aims at answering the following needs:

- Get some knowledge on:
 - Existing process and methodologies for NDE qualification, standards, reference documents and recommended practices used
 - How to account for influential parameters/variables
 - The **statistical indicators** used to evaluate the reliability of an inspection (**sensitivity analysis, POD**, false alarms, etc.)
- Understand & master underlying statistical hypotheses & reasoning
- Be able to use tools that help you to concretely perform reliability studies in an NDE context
- Discover how simulation can help you reach their targets and reduce costs!



<u>**Target audience:**</u> NDE engineers and practitioners involved or interested in reliability studies: qualification, technical justifications, performance demonstration, POD, etc.

<u>Prerequisite</u>: A minimum knowledge in NDT (level 2 equivalent) and basic knowledge in statistics.

<u>**Training documents & tools:**</u> The trainees will receive a paper and an electronic copy of the training book and of some presentations. The workshop will use various tools: "Office" tools, CIVA, OpenTurns-Python (used with Jupyter Notebook editor), and MH1823A-POD (courtesy of Charles Annis).

Price: 2250 € (not including taxes) / person for the 3 days in EXTENDE's facilities.

<u>When:</u> See Part 6 for the 2023 schedule. Additional sessions can be organized on demand if enough people are interested.

Organization details: The sessions take place in EXTENDE's premises:

14 Avenue Carnot 91300 Massy France

For workshops, EXTENDE provides sufficient computers to use the different tools. EXTENDE will provide lunch each day.



5.7 Reliability in NDE: Dedicated course

Length & Agenda: See 5.6

Objectives: See 5.6

Target audience: See 5.6

Prerequisite: See 5.6

Training documents & Tools: See 5.6

<u>Price:</u> 7350 € (not including taxes) for the three days of course*. This price does not include travel fees.

*Price for a group of 6 people maximum. Beyond this number of participants, additional costs will be applied.

When: Organized on demand and depending on availabilities from our trainers.

Organization details:

- For workshops, if the session takes place in EXTENDE's facilities, we provide a computer for each participant. Trainees are allowed to bring their own laptop, but in this case, EXTENDE is not responsible for potential installation problems of the different tools used during the training course. EXTENDE will provide lunch each day.
- If the session is organized on the customer's site, the trainer's travel fees will be charged at a price defined in the official proposal. The customer is in charge of the organization of the training room (computers, projector, lunch, etc.).
 EXTENDE and the customer will organize, prior to the course, the installation of the necessary tools used during the training for the workshop sessions.



6. Upcoming Intercompany courses

The dates of the upcoming intercompany training courses for 2023 are provided hereafter.

The costs and the program of these sessions are described in chapter 5.

These courses are taught in English (except if only French speaking people or Spanish speaking people attend, and except for the French session of the "Reliability in NDE" course) and take place at EXTENDE S.A. (France) or near EXTENDE Inc. (U.S.A.) facilities. All the documents provided for the CIVA courses are in English.

If the number of registrations to an inter-company training session is ever not sufficient, EXTENDE reserves the option to cancel this session. The registered participants will be informed 14 days before the planned date of the effective cancellation of this session and will have priority registration to the following session defined in the training catalog.

For CIVA training courses, for people wishing to be trained only on the UT module, the training can last 4 days , the last day being focused on another technique or CIVA Analysis. But it is also possible to stay the 5th day on CIVA UT (optional) to keep working on this module with the assistance of the trainer.

Training sessions	Dates	Location
CIVA UT + Additional module [*]	March 13 th to 17 th	Massy, France
Reliability in NDE English session	April 04 th to 06 th	Massy, France
3.5 days CIVA UT + 1.5 day CIVA RT/CT	April 24 th to 28 th	Norfolk, VA, U.S.A.
CIVA UT + Additional module*	June 19 th to 23 rd	Massy, France
CIVA UT + Additional module [*]	September 25 th to 29 th	Massy, France
Reliability in NDE French session	October 10 th to 12 th	Massy, France
3.5 days CIVA UT + 1.5 day CIVA ET	October 16 th to 20 th	Norfolk, VA, U.S.A.
CIVA UT + Additional module*	November 20 th to 24 th	Massy, France

*For the CIVA training in France, during Thursday, two modules will be taught in parallel. The trainee has the choice to follow one of the two proposed modules.



7. How to reach us?

7.1 Training at EXTENDE S.A. facilities (head office in Massy)



EXTENDE is situated 17 kms South from Paris, in the city of Massy, France.

Find us on Google Maps



Coming by car:

From Paris, the easiest way is to take the Highway A6-A10, take the "Massy" exit. The journey time is approximately 20 minutes from the South of Paris.

Getting here by public transportation:

The trains "RER B" and "RER C" go directly from Paris to Massy. The train stop is the "Massy-Palaiseau" train station. EXTENDE S.A. facilities are only 750 m away from the train station.

Contact us:

EXTENDE S.A.

Our facilities are in:

14 Avenue Carnot 91300 Massy France

contact@extende.com Fax: +33 (0)9 72 13 42 68

7.2 Training sessions near EXTENDE Inc. facilities

Contact us:

EXTENDE Inc.

PO Box 41114 Norfolk, VA 23541 U.S.A.

contactus@extende.com Fax 518- 602-1368



8. Finding a hotel close to our facilities

List of suitable hotels for our Massy facilities

Name	Address	Website	Tel	Email
Mercure Paris Massy Gare TGV	21 Avenue Carnot 91886 Massy	http://www.accorhotels.com/fr/hote l-1176-mercure-paris-massy-gare- tgv/index.shtml	+33 1 69 32 80 20	<u>H1176@accor.c</u> om
Hilton Garden Inn Paris Massy	35 Av. Carnot, 91300 Massy	https://paris-massy.naoshotel.com/	+33 1 87 59 00 20	paris- massy@naoshot el.com
Novotel Massy- Palaiseau	18-20 Rue Emile Baudot 91120 Palaiseau	http://www.accorhotels.com/gb/hot el-0386-novotel-massy- palaiseau/index.shtml	+33 164 53 90 00	H0386@accor.c om
Tulip Inn	23 Avenue des alliés 91120 Palaiseau	<u>http://www.goldentulip.com/fr/hotel</u> <u>s/tulip-inn-massy-palaiseau-</u> <u>residence</u>	+33 1 73 62 11 22	g.m@tulipinnm assypalaiseau.c om
Hôtel Cujas - Panthéon	18 Rue Cujas 75005 Paris	http://hotelcujas.com/	+33 1 43 54 58 10	<u>hotel-cujas-</u> pantheon@wan adoo.fr
Hôtel Beauvoir	43 Avenue Georges Bernanos 75005 Paris	<u>http://www.hotel-</u> <u>beauvoir.fr/f_fr.html</u>	+33 1 43 25 57 10	<u>contact@hotel-</u> <u>beauvoir-</u> <u>paris.com</u>
Hôtel ibis Alésia Montparnasse		http://www.ibishotel.com/fr/hotel- 0959-ibis-paris-alesia- montparnasse- 14eme/location.shtml	+33 1 53 90 40 10	<u>H0959@ACCO</u> <u>R.COM</u>
Appart-Hôtel ADAGIO	2A Place de l'Union Européenne 91300 Massy, France	https://www.adagio- city.com/fr/hotel-8696-aparthotel- adagio-access-paris-massy- gare/index.shtml	+33 1 691 883 50	<u>h8696@adagio-</u> <u>city.com</u>
B&B Hotel Massy Gare TGV	3 Rue Galvani, 91300 Massy, France	<u>https://www.hotel-</u> <u>bb.com/fr/hotel/massy-gare-tgv</u>	+33 8 92 78 29 29	