

# Motorsport Technician

# Race Tech Institute



## MSi RACE TECH INSTITUTE

Welcome to the most modern and advanced training centre in Spain.

At MSi Race Tech Institute we train the future mechanics who will take over the teams in the top international motorsport categories.

We have the best teaching material, including the Teo Martín Motorsport team's competition vehicles and the best specialist teaching staff in the sector, all of whom have extensive experience in the world of motorsport. We also provide students with state-of-the-art technology so that our passion, racing, can be transmitted to all of them with the greatest guarantee of success.



## TEO MARTÍN CEO MSi

The Motor & Sport Institute was conceived with the clear idea of providing the mechanics and engineers specialising in Motorsport of the future with the best technology in their respective disciplines and the best professionals in this world to instil in them all their knowledge and experience and thus make them the benchmarks in their sector.

The MSi RaceTech Institute is the 360° platform that we make available to students to offer them theoretical and practical support to develop a complete and quality training that will result in professionals of the highest level.





## Key Features of Our Race Tech Institute Training Plan



## MSI TECHNOLOGY PARK

The best facilities for your training. We have static and roller dynamometers, Seven Post Rig, the only dynamic vehicle test bench in Spain, for the training of engineers.

The wind tunnel, CNC machining, metrology laboratories, additive manufacturing (3-D printing) and professional driving simulators complement our training facilities.

## ISO CERTIFICATION

The Quality Management System adopted by MSi Race Tech Institute complies with the requirements of the UNE-EN ISO 9001:2015 Standard in the field of design and delivery of training actions in automotive mechanics.





## HIGH LEVEL OF INTERNSHIPS

Internships are the basis for creating experienced and quality motorsport mechanics and engineers. Complementary activities on the racetrack and in the laboratories of the MSi Technology Park add value to the training and build on the knowledge acquired in the classroom.

## AGREEMENTS WITH LARGE COMPANIES

All our agreements with companies such as Automotive, Hypermill, OpenMind, Philips, JHK, RACE, UFV, RFEdA, Beta, PPG, Innovalia or Hoffmann Group, among others, will exponentially grow our teaching quality by encouraging the best talents of each of the promotions, with masterclasses and through support to the MSi Technology Park, as well as promoting their employability through the approach with different companies.

## REGULAR TOP LEVEL MASTERCLASSES

All students who specialise in the RaceTech Institute will receive lectures from prestigious companies in the world of motorsport, in which they will offer their knowledge and experience with the sole purpose of providing the student with the best possible training.

## HIGHLY QUALIFIED TEACHING STAFF

All our teachers have many years of experience in the world of racing, motorsport mechanics and engineering.

## PARALLEL TRAINING

The students of the MSI Race Tech Institute will complete each of the subjects in parallel to the work of the Teo Martín Motorsport teams, present in the most prestigious European championships.





## WE MOTIVATE THE TALENT OF OUR STUDENTS

Skill competitions, continuous technical evaluation of students, promotion of the best talents and driving training through our professional simulators.

## TEAM MANAGEMENT, SPONSORSHIP AND MARKETING

In Motorsport we aim to provide students with the necessary tools to create their own racing team.

## 100% FACE-TO-FACE COURSES

Attendance will be controlled and compulsory with at least 80% attendance for the evaluation and obtaining of the title.

## EXCLUSIVE TRAINING

With small groups, attending to the different needs of the students and guaranteeing personalised training.





## TITLE OF MOTORSPORT TECHNICIAN

The student will receive a diploma issued by MSI RaceTech Institute as a Motorsport Technician.

## PROXIMITY WITH RESIDENCES

For students from outside the Community of Madrid, we have agreements with two university residences:

- Montepincipie Residence Hall
- Nexo El Faro Residence Hall

## PAYMENT FACILITIES

By means of instalments with no extra costs.







## Level I - Starter



## DESCRIPTION

Provides the initial knowledge necessary to carry out operations on vehicles in a mechanical workshop in compliance with the established safety conditions. It introduces the student to the basic concepts on the use of hand tools and machines, fixing elements, consumables, introduction to the different elements of the competition vehicle and its theoretical physical basis.

## ACCESS

Training open to all those over 16 years old, with a minimum qualification of ESO who want to enter the world of racing mechanics.

All those students who are interested in taking this level of training must complete the pre-registration process detailed on the last pages.





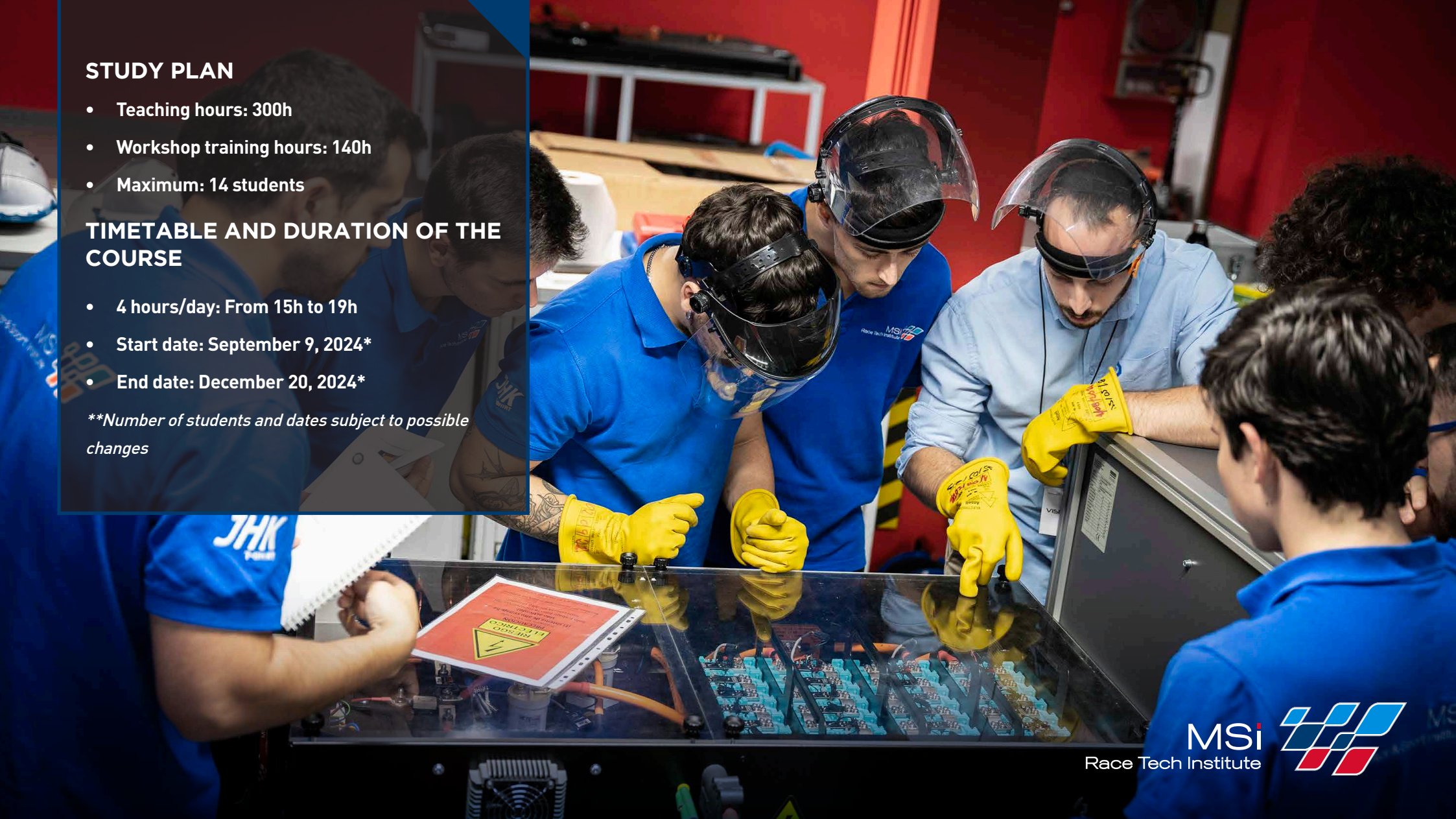
## STUDY PLAN

- Teaching hours: 300h
- Workshop training hours: 140h
- Maximum: 14 students

## TIMETABLE AND DURATION OF THE COURSE

- 4 hours/day: From 15h to 19h
- Start date: September 9, 2024\*
- End date: December 20, 2024\*

*\*\*Number of students and dates subject to possible changes*





## SUBJECTS

- Hand and power tools
- Fasteners and consumables
- Occupational risk prevention and safety
- Working methodology in a racing team
- Introduction to the mechanical components of the automobile

Introduction to elementary mathematics, physics and electricity

*\* The subjects are subject to possible changes.*

*\*The teaching plan, as well as the subjects are subject to possible changes both before and during the development of the teaching plan due to the needs of the co-ordination, the students and the academic year.*



## SKILLS

Visual-motor coordination, manipulative skills, mechanical and electrical aptitudes, spatial vision and logical reasoning. Complete knowledge of the use and function of machine tools, workshop elements and tools, consumables and fasteners, complying with quality, safety and environmental protection specifications.

Complete knowledge of the elements that make up a vehicle and their elementary scientific basis.

## INTERESTS AND RECOMMENDED PERSONALITY

Interest in mechanics, racing vehicles and the world of motorsport, as well as being an active person, with a capacity for attention, enterprising to carry out maintenance operations, assembly of accessories and vehicle transformations, patient, practical, organised and methodical.





## PROFESSIONAL OPPORTUNITIES

This intensive introductory course does not have a direct career path. The student will have to continue his or her training in the field of vehicle electromechanics through our intermediate level.

## JOB PROSPECTS

Motorsport professionals are in great demand. Our own introductory qualification will provide the student with the necessary foundations to continue his or her training in the field of racing mechanics.

Although after this training the student will not have sufficient skills to carry out any professional work, he/she will acquire the experience and knowledge necessary to face the next level of training offered by MSi Race Tech with guarantees.





## Level II - Intermediate



## DESCRIPTION

This course provides the necessary knowledge to carry out maintenance operations, assembly of accessories and transformations of the competition vehicle in the areas of mechanics, hydraulics, pneumatics and electricity, as well as adjusting to the determined procedures and times, achieving the required quality and complying with the established safety conditions.

The student will be provided with an in-depth vision of the world of competition.

## ACCESS

It is necessary to fulfil at least one of the following requirements:

- Starter Motorsport Technician MSi qualification
- Intermediate vocational training in vehicle electromechanics
- Advanced vocational training in automotive engineering

All those students who are interested in taking this level of training must complete the pre-registration process detailed in the last pages of this dossier.





## STUDY PLAN

- Teaching hours: 800h
- Training hours on the track: 30h
- Hours of workshop training: 200h
- Maximum: 24 students.

## TIMETABLE AND DURATION

- 4 hours/day:  
From 10:00 to 14:15
- Course duration: 11 months (january – july / september – december)
- Start date: January 13, 2025\*
- End date: December 2025\*

*\*\*Number of students and dates subject to possible changes*

*\*The teaching plan, as well as the subjects are subject to possible changes both before and during the development of the teaching plan due to the needs of the co-ordination, the students and the academic year.*





## SUBJECTS

- Racing management
- Racing tooling and metrology
- Powertrain
- Chassis & Dynamics
- Drivetrain
- Electricity, Electronics & Wiring
- Technical english
- Metal manufacturing I
- Racing car development

*\*The teaching plan, as well as the subjects are subject to possible changes both before and during the development of the teaching plan due to the needs of the co-ordination, the students and the academic year.*





## SKILLS

Visual-motor coordination, manipulative skills, mechanical and electrical aptitudes, spatial vision and logical reasoning. Complete knowledge of the vehicle, working methodology in vehicle preparation and initiation to track work.

Use of specific racing tools, consumables and Motorsport fasteners that meet quality, safety and environmental protection specifications.

## INTERESTS AND RECOMMENDED PERSONALITY

Interest in mechanics, competition vehicles and the world of motorsport, as well as being an active person, with attention span, psychomotor skills, enterprising to carry out maintenance operations, assembly of parts and vehicle transformations, patient, practical, organised and methodical.





## CAREER OPPORTUNITIES

- Advanced vehicle electromechanics
- Maintenance and preparation of high performance vehicles
- 2nd touring car race mechanic

## JOB PROSPECTS

There is a great demand for Motorsport professionals. Our intermediate qualification will provide students with the necessary tools to develop their professional work in the field of high-level street mechanics and they will be at the intermediate level in Motorsport mechanics.

With this knowledge you will be able to work in professions such as high-end light vehicle mechanic, intermediate level Motorsport mechanic or Technician in motor racing at national level.





## Level III - Advanced



## DESCRIPTION

Provides the necessary knowledge to perform the complete set of operations that take place in a top-level racing team. Advances in the technological development of the vehicle. Full training in the laboratories of the MSI Technology Park technology centre.

Direct responsibility in the Spanish racing team Teo Martin Motorsport working on the maintenance and development of the vehicles in the workshop. The student will travel, expenses paid, with the racing team as part of one of their racing programmes.

## ACCESS

You must hold the Level II Motorsport Technician MSi qualification and pass the Level III Motorsport Technician entry test.





## STUDY PLAN

- Teaching hours: 1600h
- Team training hours: 600h
- Technology Park training hours: 600h
- Maximum: 12 students

*\*Number of students subject to change.*

## TIMETABLE AND DURATION

- 8 hours/day:  
From 08:00 to 13:30 and from 15:00 to 18:00
- Start date:  
January 13, 2025\*
- End date:  
December 2025\*

*\*\*Number of students and dates subject to possible changes*



## SUBJECTS

- Engine Maintenance & Diagnostics
- Data Acquisition
- Technical english
- Racing Team Works
- Hybrid & Electric cars
- Materials Technology
- Race Car Works
- Racing Team Works
- Prevention of Occupational Risks

*\*The teaching plan, as well as the subjects are subject to possible changes both before and during the development of the teaching plan due to the needs of the co-ordination, the students and the academic year.*





## SKILLS

Visual-motor coordination, mechanical and electrical skills, manipulative skills, spatial vision and logical reasoning. Complete knowledge of the vehicle and the world of motorsport, methodology of working in a racing team and working on the track.

Professional skills of the highest mechanical level.

## RECOMMENDED INTERESTS AND PERSONALITY

Interest in the mechanics of competition vehicles and the world of Motorsport, as well as being an active person, with attention span, patient, psychomotor and entrepreneurial skills for maintenance operations, preparation, assembly of elements and transformation of the vehicle, practical, organised and methodical.





## CAREER OPPORTUNITIES

- Advanced technician in the maintenance, preparation and development of racing vehicles.
- Maintenance and preparation of high performance vehicles
- 2nd Motorsport mechanic

## JOB PROSPECTS

There is a great demand for Motorsport professionals. Our advanced degree will provide students with the necessary tools to develop their professional work in the field of top-level competition mechanics.

With this knowledge they will be able to work in professions such as top level competition vehicle mechanic, advanced level motorsport mechanic or international motor racing technician.





A large group of approximately 25 people, mostly men, are posing for a group photo in a garage. They are all wearing blue tracksuits with white accents and black face masks. Some are standing in the back rows, some are leaning on a white rally car in the center, and two are crouching in the front. The car has various sponsor logos, including 'MSI', 'alsad', 'uca', and 'ULTIMAVUELTA.es'. The background shows the interior of a garage with a white wall and a large window.

# Pre-enrolment process and enrolment



To formalise enrolment in the course, students must follow the following process:

1. Request the pre-registration form through our e-mail address [formacion@msispain.com](mailto:formacion@msispain.com)
2. Proof of payment of 500 euros as a pre-registration fee by sending the transfer receipt and the pre-registration form duly completed to the following e-mail address [formacion@msispain.com](mailto:formacion@msispain.com)
  - If, for reasons beyond MSi RaceTech's control, the student is unable to attend the course, he/she will be reimbursed only 50% of the pre-registration fee for general expenses.
3. Arrange a date for a personal interview to access the training.
4. Once the results of the admission interview have been obtained and depending on their previous training, the student will be informed of the Race Tech Institute level to which they will have access, being able to choose to start at a lower level.





5. Once the student has been admitted to the training, he/ she must request and fill in the form and pay the enrolment fee according to the level of training he/she is going to follow\*:

- **Level I (Starter):** 1,000 euros
- **Level II (Intermediate):** 1,500 euros
- **Level III (Advanced):** 2,200 euros.

*\* The enrolment process must be completed within the deadlines indicated by the MSi Race Tech Institute team.*

*Each student will have a maximum of 2 months from the communication of their admission to formalise their enrolment; if they do not do so, their place may be given to another student. Once the registration has been completed, the student agrees to complete the training and accepts the general Race Tech Institute conditions.*

*\* In the event that the student is interested in continuing their training in the following levels, they must inform the MSi RaceTech staff during the registration process. In order to secure a place in the next level, the student must complete the enrolment process at least 1 month in advance in the case of advancing from level I to level II and 2 months before the start of the advanced level in the case of advancing from level II to level III.*





6. The payment of the course, once the course has started, will be 100% divided monthly, the total payment of the course will be divided over the whole academic year, and these monthly payments may coincide with holiday periods when no classes are held.

- **Level I (Starter):**

500 euros/month (4 months)

- **Level II (Intermediate):**

675 euros/month (12 months)

- **Level III (Advanced):**

800 euros/month (12 months)

7. Payment by direct debit or receipt of confirmation of payment must be received at [formacion@msispain.com](mailto:formacion@msispain.com) before the 15th of the current month.





# ACCESS MODE

1

Request and fill in the application form.  
Proof of payment of 500 euros as a pre-registration fee.

2

PERSONAL INTERVIEW

3

ADMISSION

4

FORMALISATION OF ENROLMENT

Starter

Training 300h  
Workshop 140h

Intermediate

Training 1000h  
Workshop 200h  
Track 30h

Advanced

Training 1600h  
Technology Park 600h  
TMM Team 600h





# MOTORSPORT TECHNICIAN

In collaboration with:



Universidad  
Francisco de Vitoria  
**UFV** Madrid

## Main partners



Real Federación  
Española de  
Automovilismo

**PHILIPS**

**JHK**  
T-SHIRT



**DS** DASSAULT  
SYSTEMES



## Technical partners

**Beta**

**Hoffmann Group**

**innovaia**  
METROLOGY



**MSi**  
Race Tech Institute





# CONTACT

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[www.msispain.com](http://www.msispain.com)



In collaboration with:



Universidad  
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**UFV** Madrid

**MSi Race Tech Institute**

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