

Anexo 2

Pruebas para la obtención de títulos de Técnico y Técnico Superior
Convocatoria correspondiente al curso 2025-2026

(Resolución de 12 de diciembre de 2025 de la Dirección General de Educación Secundaria, Formación Profesional y Régimen Especial)

DATOS DEL ALUMNO			FIRMA
APELLIDOS:			
Nombre:	D.N.I./ N.I.E.	Fecha:	

Código del ciclo: (1) ELES04	Denominación completa del título: (1) AUTOMATIZACIÓN Y ROBÓTICA INDUSTRIAL
Clave o código del módulo: (1) CM14	Denominación completa del módulo profesional: (1) INGLÉS TÉCNICO PARA GRADO SUPERIOR

INSTRUCCIONES GENERALES PARA LA REALIZACIÓN DE LA PRUEBA
- Cumplimentar los datos del aspirante antes del examen y firmar en todas las hojas que se entreguen. - Tener disponible el DNI o documento identificativo equivalente en la mesa. - Señalar y escribir con tinta indeleble, que no sea roja, las respuestas y su desarrollo. - Si se ha de rectificar una respuesta, trazar un aspa o tachar con una línea horizontal. No utilizar líquido corrector (Tippex). - Utilizar solamente el papel facilitado por el examinador (con el sello y formato correspondiente). - No utilizar material de consulta (salvo aquél que se autorice expresamente). - No se puede dejar ninguna de las pruebas completamente en blanco. - La localización, en poder del alumno o en su cercanía de contenidos en medios electrónicos o analógicos distintos a los suministrados por el examinador, implica su retirada y la del procedimiento, resultando suspenso con la nota de 0. - La prueba de speaking se realizará por orden alfabético e individual de los candidatos una vez finalizada la parte escrita.
CRITERIOS DE CALIFICACIÓN Y VALORACIÓN
- Cada uno de los 5 apartados de la prueba (Reading Comprehension, Use of English, Listening Comprehension, Writing y Speaking) tiene una puntuación de 2 puntos, lo que supone un total de 10 puntos. - Dejar alguna de las partes totalmente en blanco, supone el suspenso de la prueba, y por tanto del módulo. - La valoración de cada pregunta aparece reflejada junto a su enunciado. - En caso de penalizaciones, estas se mencionan en la pregunta a la que afectan. En el caso de las penalizaciones en las partes de writing y speaking, las puntuaciones que aparecen son máximas y podrán descender hasta 0 en función del número de errores detectados y la gravedad de los mismos. - Se considera aprobado un aspirante si tiene un 50% del examen correcto sobre la nota total una vez sumadas todas las puntuaciones de cada apartado.

CALIFICACIÓN



DATOS DEL ALUMNO			FIRMA
APELLIDOS:			
Nombre:	D.N.I./ N.I.E	Fecha:	

CONTENIDO DE LA PRUEBA:

READING (2 points)

The Future of Industrial Automation and Robotics in Smart Manufacturing

Industrial automation and robotics are at the core of modern manufacturing systems. In advanced production environments, traditional machines are being replaced by automated systems that integrate programmable logic controllers (PLCs), industrial robots, and sensor networks. These technologies allow for precise control, high repeatability, and continuous operation, which significantly improve productivity and product quality.

One of the most important innovations is the integration of artificial intelligence and machine learning into industrial processes. Robots equipped with vision systems and advanced sensors can identify defects, measure tolerances, and adjust parameters in real time. This type of automation reduces downtime and supports predictive maintenance, where systems can detect potential failures before they occur.

Another key development is the implementation of collaborative robots, or cobots, in assembly lines. These robots are designed with force sensors and safety systems that enable safe human-robot interaction. Cobots are especially useful in tasks that require both precision and flexibility, such as small-batch production or customized manufacturing.

Furthermore, the concept of Industry 4.0 is transforming factories into fully connected smart systems. Through the use of the Internet of Things (IoT), machines, control systems, and production software communicate with each other in real time. This allows for better process optimization, remote monitoring, and data-driven decision-making. Digital twins—virtual models of physical systems—are also being used to simulate and improve production processes.

Despite these technological advances, there are still challenges to address. The implementation of automated systems requires high initial investment and skilled technicians capable of programming, maintaining, and troubleshooting complex equipment. In addition, cybersecurity has become a critical issue, as connected systems are more vulnerable to digital threats.

In conclusion, the future of industrial automation and robotics lies in the integration of intelligent systems, connectivity, and human expertise. Technicians trained in automation, control systems, and robotics will play a crucial role in the development of efficient, flexible, and sustainable industrial environments.



DATOS DEL ALUMNO			FIRMA
APELLIDOS:			
Nombre:	D.N.I./ N.I.E	Fecha:	

1. Read the text and write if the following sentences are TRUE or FALSE.(0.7 points – 0.1 each)

1. Traditional machines are still the main technology in modern factories. _____
2. Vision systems help robots detect defects. _____
3. Cobots cannot interact safely with humans. _____
4. Industry 4.0 involves connected systems and real-time communication. _____
5. Automation systems do not require skilled technicians. _____
6. Predictive maintenance helps reduce machine downtime. _____
7. Digital twins are physical copies of machines used in factories. _____

2. Read the text again and choose the correct answer (a, b, c or d) (0.8 points – 0.1 each)

1. What is the function of PLCs in industrial systems?
 - a) To design products
 - b) To control automated processes
 - c) To replace sensors
 - d) To increase manual labor
2. What is predictive maintenance?
 - a) Repairing machines after failure
 - b) Ignoring machine errors
 - c) Detecting failures before they happen
 - d) Stopping production permanently
3. What makes cobots safe to work with humans?
 - a) High speed motors
 - b) Bright colors
 - c) Force sensors and safety systems
 - d) Large size
4. What is a “digital twin”?
 - a) A robot assistant
 - b) A virtual model of a physical system
 - c) A type of sensor
 - d) A control panel
5. What is one challenge of Industry 4.0?
 - a) Lack of electricity
 - b) Cybersecurity risks
 - c) Low productivity
 - d) No need for training



DATOS DEL ALUMNO			FIRMA
APELLIDOS:			
Nombre:	D.N.I./ N.I.E	Fecha:	

6. What is one benefit of IoT in industrial automation?
 - a) It increases manual work
 - b) It allows real-time communication between systems
 - c) It reduces the need for sensors
 - d) It eliminates data analysis
7. What is required to work with advanced automated systems?
 - a) Only basic training
 - b) No technical knowledge
 - c) Skilled technicians
 - d) Only physical strength
8. What is one role of sensors in robotics?
 - a) To decorate machines
 - b) To control company finances
 - c) To collect and transmit data
 - d) To replace software

3. Find a word in the text that means (0.5 points – 0.1 each)

1. Accuracy → _____
2. Breakdowns / stops → _____
3. Identify → _____
4. Connected → _____
5. Solve technical problems → _____

LISTENING (2 points)

1. Listen to . Mark the following statements as true (T) or False (F). (0.4 points – 0.1 each)

1. _____ The new worker is a senior professional.
2. _____ The man already has a Phillips screwdriver.
3. _____ The woman prefers plastic handles on screwdrivers.
4. _____ The woman likes Klein needlenose pliers for professional work.



DATOS DEL ALUMNO			FIRMA
APELLIDOS:			
Nombre:	D.N.I./ N.I.E	Fecha:	

2. Complete the conversation. (1.6 points – 0.1 each)

Hello everybody. What if all the _____(1) in your life could connect to the Internet? Not just computers and _____(2), but everything: window shades, garage doors, any sort of _____(3). And what if they could all communicate and respond to your _____(4)? It's not science fiction. It's just domotics or home automation.

As you know, _____(5) _____(6) is what it sounds like: automating the ability to control items around the house with a simple push of a button. It makes elements of your house _____(7). You can control utilities and save energy at the same time, and what's more, you can do it all from anywhere, over the Internet, via a tablet or a smartphone.

I am here today to tell you how our new home automation systems work. So, let's start.

- The _____(8) _____(9) is the heart of the system. Every Control Panel has a built-in cellular device to send safe, uninterrupted alarm signals to the Monitoring Centre.

- Then there is a network of _____(10) cameras and sensors all around the house.

You can control the lights, for example. And wireless light control is a very useful and interesting application, because you can simulate someone at home, or you can turn on the lights before you walk in. It can be done with small _____(11) too.

For each person or home we design a monitoring plan, which includes _____(12), but also protection against dangers like smoke, fire, flood, water leaks, etc. because burglars aren't the only threat. The system has _____(13) to detect all these dangers. When they detect trouble, they send an instant alert to the Control Panel. You can always feel safe!

To sum up, I'll tell you what the main features of our systems are:

- They are easy to install,
- activation takes seconds,
- online _____(14) and controls are amazing,
- and _____(15) _____(16) is great.

USE OF ENGLISH (2 points)

1. Complete the sentences with the correct form of the verb in Brackets (1 point – 0.2 each)

1. The technician _____ (check) the wiring when the robot suddenly stopped.
2. If the voltage _____ (be) too high, the circuit can be damaged.
3. We usually _____ (test) the system before starting production.
4. The engineer _____ (install) the new sensors at the moment.
5. When I arrived, they _____ (repair) the robotic arm.



DATOS DEL ALUMNO			FIRMA
APELLIDOS:			
Nombre:	D.N.I./ N.I.E	Fecha:	

2. Write the right tool next to the definition. The first letter is given. (1 points – 0.2 each)

1. For getting the plastic coating off wires you use the w_____ s_____
2. A s_____ is used for turning screws.
3. With f_____ t_____ you can route new wiring through walls.
4. The m_____ is an instrument that measures voltage, current and resistance.
5. The p_____ d_____ is a tool or machine that you use for making holes.

WRITING (2 points)

Criterios de calificación (2 points)

1. Content (0.4 points) – All points included
2. Structure (0.4 points) – Clear email format (opening, body, closing), number of words
3. Tone & Register (0.4 points) – Formal and appropriate
4. Grammar (0.4 points) – Accuracy and range
5. Vocabulary (0.4 points) – Use of technical and relevant language

Situation: You are a robotics technician working for a company called TechMotion Automation. One of your clients, GreenTech Manufacturing, is experiencing problems with a robotic arm on their production line.

The client has reported that:

- The robot is stopping unexpectedly
- There may be a sensor malfunction
- Production has been affected

1. Write a formal email (150–200 words) to the client in which you:

- Introduce yourself and your company
- Acknowledge the problem
- Suggest a possible cause of the issue
- Propose a date and time for a technical visit
- Ask for any additional relevant information
- Use an appropriate formal tone



DATOS DEL ALUMNO			FIRMA
APELLIDOS:			
Nombre:	D.N.I./N.I.E	Fecha:	

To:
From:
Subject:



DATOS DEL ALUMNO			FIRMA
APELLIDOS:			
Nombre:	D.N.I./ N.I.E	Fecha:	

SPEAKING (2 points)

Criterios de calificación (2 points)

1. Grammar accuracy (0.4 points)
2. Vocabulary range and appropriacy (0.4 points)
3. Register and tone (0.4 points)
4. Structure and coherence (0.4 points)
5. Fluency (0.4 points)

Situation: You are applying for a job as an Industrial Robotics Technician.

Task: In this speaking task, you will take part in a simulated job interview.

The examiner will ask you a series of questions related to your professional profile, technical knowledge, and experience in industrial robotics. You are expected to answer clearly and appropriately, using formal and professional language.

You should:

- Introduce yourself and your background in industrial robotics.
- Describe your studies, training, or work experience (e.g. programming robots, maintenance, troubleshooting, automation systems).
- Explain your technical skills (e.g. PLC programming, sensors, actuators, robotic arms, safety procedures...).
- Answer questions about your availability, problem-solving abilities, and professional goals.

Try to speak fluently and organize your answers in a clear and logical way. Provide relevant technical details and examples when possible.