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1. MDA Operator ID Text box (i.e. allows characters and numbers maximum of 10)
2. Nov and Non are acronyms and should be all caps (i.e. NOV, NON)
3. We will retain "NON" and "NOV" and will not hide them based on questions as we discussed during requirements. However, we will ensure validations are implemented based on requirements questions answer Yes/No.
4. NON Validation:
 - a. If the answer to question "AIR Submitted?" (and therefore AIR Complete) equals "No" then ensure "NON Details are captured"
 - b. If the answer to question "AIR Complete?" equals "No" then ensure NON details are captured
5. NOV Validation:
 - a. If the answer to NON Status equals "Non-Compliant" then ensure "NOV Details are captured"
6. Don't make NON or NOV fields mandatory if answer to both the questions are "Yes"
 - a. Did you Received the Solid Waste AFO Annual Implementation Report (AIR Report) equals "Yes"
 - b. AIR is it Completed equals "Yes"
7. Don't make NOV as mandatory if: NON Status is "Compliant"
8. On the NOV Validation include "Fee Receive Date"
9. Once NOV Status updated as "Compliant" ensure questions:
 - a. "Did you Received the Solid Waste AFO Annual Implementation Report (AIR Report)" updated as "Yes"
 - b. "AIR is it Completed updated" as "Yes"
 - c. NON Status updated as "Compliant"
10. Ensure Work Activity log gets added with NON Status and NOV Status accordingly by that way history of changes are retained and maintained.

Non UI Fields	Issued Date	Update Completed Date once NON or NOV Status = "Compliant"	NON or NOV Status	Reason
WAL UI Fields	Start Date	Completed Date	Status	Comments
NON Issued	05/29/2019	9/24/2020	Compliant	Did not submit
NOV Issued	07/29/2019	9/24/2020	Compliant	Fine Received + Yes or No with Amount (if Yes)

The above work activity log signifies that NON was issued on May 29th and NOV on Jul 29th NOV. Paid fine and got them onto compliance on September 24,2020.

11. Violation Table Update: Please ensure Violation table gets updated once data gets entered into NOV. Update the violation as compliant once fine gets paid and status gets compliant.

So the "NON" is a warning letter, but the "NOV" is a violation letter- meaning that is considered enforcement. So if the requirements are not satisfied after the operator received the NON, then we move into the enforcement stage, which is the NOV w/ a fine.

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a [letter](#) to [President Franklin D. Roosevelt](#) alerting FDR to the potential development of "extremely powerful bombs of a new type" and recommending that the US begin similar research. This eventually led to the [Manhattan Project](#). Einstein supported the [Allies](#), but he generally denounced the idea of using [nuclear fission](#) as a weapon. He signed the [Russell–Einstein Manifesto](#) with British philosopher [Bertrand Russell](#), which highlighted the danger of nuclear weapons. He was affiliated with the [Institute for Advanced Study](#) in [Princeton, New Jersey](#), until his death in 1955.

He published [more than 300 scientific papers](#) and more than 150 non-scientific works.^{[12][16]} His intellectual achievements and originality have made the word "Einstein" synonymous with "genius".^[17] [Eugene Wigner](#) compared him to his contemporaries, writing that "Einstein's understanding was deeper even than [Jancsi von Neumann](#)'s. His mind was both more penetrating and more original than von Neumann's."^[18]



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Early life and education

See also: [*Einstein family*](#)



Einstein at the age of 3 in 1882



Albert Einstein in 1893 (age 14)



Einstein's [matriculation](#) certificate^[note 2]

Albert Einstein was born in [Ulm](#), in the [Kingdom of Württemberg](#) in the [German Empire](#), on 14 March 1879.^[5] His parents were [Hermann Einstein](#), a salesman and engineer, and [Pauline Koch](#). In 1880, the family moved to [Munich](#), where Einstein's father and his uncle Jakob founded *Elektrotechnische Fabrik J. Einstein & Cie*, a company that manufactured electrical equipment based on [direct current](#).^[5]

The Einsteins were non-observant [Ashkenazi Jews](#), and Albert attended a [Catholic elementary school](#) in Munich, from the age of 5, for three years. At the age of 8, he was transferred to the Luitpold Gymnasium (now known as the Albert Einstein Gymnasium), where he received advanced primary and secondary school education until he left the [German Empire](#) seven years later.^[19]

In 1894, Hermann and Jakob's company lost a bid to supply the city of Munich with electrical lighting because they lacked the capital to convert their equipment from the direct current (DC) standard to the more efficient [alternating current](#) (AC) standard.^[20] The loss forced the sale of the Munich factory. In search of business, the Einstein family moved to Italy, first to [Milan](#) and a few months later to [Pavia](#). When the family moved to Pavia, Einstein, then 15, stayed in Munich to finish his studies at the Luitpold Gymnasium. His father intended for him to pursue [electrical engineering](#), but Einstein clashed with authorities and resented the school's regimen and teaching method. He later wrote that the spirit of learning and creative thought was lost in strict [rote learning](#). At the end of December 1894, he traveled to Italy to join his family in Pavia, convincing the school to let him go by using a doctor's note.^[21] During his time in Italy he wrote a short essay with the title "On the Investigation of the State of the [Ether](#) in a Magnetic Field".^{[22][23]}

Einstein always excelled at math and physics from a young age, reaching a mathematical level years ahead of his peers. The twelve-year-old Einstein taught himself algebra and Euclidean geometry over a single summer.^[24] Einstein also independently discovered his own original proof of the [Pythagorean theorem](#) at age 12.^[25] A family tutor Max Talmud says that after he

had given the 12-year-old Einstein a geometry textbook, after a short time "[Einstein] had worked through the whole book. He thereupon devoted himself to higher mathematics... Soon the flight of his mathematical genius was so high I could not follow."^[26] His passion for geometry and algebra led the twelve-year-old to become convinced that nature could be understood as a "mathematical structure".^[26] Einstein started teaching himself calculus at 12, and as a 14-year-old he says he had "mastered [integral](#) and [differential calculus](#)".^[27]

At age 13, when he had become more seriously interested in philosophy (and music),^[28] Einstein was introduced to [Kant's Critique of Pure Reason](#), and Kant became his favorite philosopher, his tutor stating: "At the time he was still a child, only thirteen years old, yet Kant's works, incomprehensible to ordinary mortals, seemed to be clear to him."^[26]

In 1895, at the age of 16, Einstein took the entrance examinations for the [Swiss Federal Polytechnic School](#) in [Zürich](#) (later the Eidgenössische Technische Hochschule, ETH). He failed to reach the required standard in the general part of the examination,^[29] but obtained exceptional grades in physics and mathematics.^[30] On the advice of the principal of the polytechnic school, he attended the [Argovian cantonal school \(gymnasium\)](#) in [Aarau](#), Switzerland, in 1895 and 1896 to complete his secondary schooling. While lodging with the family of professor [Jost Winteler](#), he fell in love with Winteler's daughter, Marie. Albert's sister [Maja](#) later married Winteler's son Paul.^[31] In January 1896, with his father's approval, Einstein renounced his [citizenship in the German Kingdom of Württemberg](#) to avoid [military service](#).^[32] In September 1896, he passed the Swiss [Matura](#) with mostly good grades, including a top grade of 6 in physics and mathematical subjects, on [a scale of 1–6](#).^[33] At 17, he enrolled in the four-year mathematics and physics teaching diploma program at the Zürich polytechnic school. Marie Winteler, who was a year older, moved to [Olsberg](#), Switzerland, for a teaching post.^[31]

Einstein's future wife, a 20-year-old [Serbian](#) named [Mileva Marić](#), also enrolled at the polytechnic school that year. She was the only woman among the six students in the mathematics and physics section of the teaching diploma course. Over the next few years, Einstein's and Marić's friendship developed into romance, and they spent countless hours debating and reading books together on extra-curricular physics in which they were both interested. Einstein wrote in his letters to Marić that he preferred studying alongside her.^[11] In 1900, Einstein passed the exams in Maths and Physics and was awarded the Federal teaching diploma.^[34] There is eyewitness evidence and several letters over many years that indicate Marić might have collaborated with Einstein prior to his 1905 papers,^{[11][35][36]} known as the [Annus Mirabilis papers](#), and that they developed some of the concepts together during their studies, although some historians of physics who have studied the issue disagree that she made any substantive contributions.^{[37][38][39][40]}

Marriages and children



Albert and [Mileva](#) Einstein, 1912

Early correspondence between Einstein and Marić was discovered and published in 1987 which revealed that the couple had a daughter named "[Lieserl](#)", born in early 1902 in [Novi Sad](#) where Marić was staying with her parents. Marić returned to Switzerland without the child, whose real name and fate are unknown. The contents of Einstein's letter in September 1903 suggest that the girl was either given up for adoption or died of [scarlet fever](#) in infancy.^{[41][42]}



Einstein with his second wife Elsa in 1921

Einstein and Marić married in January 1903. In May 1904, their son [Hans Albert Einstein](#) was born in [Bern](#), Switzerland. Their son [Eduard](#) was born in Zürich in July 1910. The couple moved to Berlin in April 1914, but Marić returned to Zürich with their sons after learning that despite their close relationship before,^[11] Einstein's chief romantic attraction was now his first and second cousin Elsa.^[43] They divorced on 14 February 1919, having lived apart for five years.^{[44][45]} Eduard had a breakdown at about age 20 and was diagnosed with [schizophrenia](#).^[46] His mother cared for him and he was also committed to asylums for several periods, finally being committed permanently after her death.^[47]

In letters revealed in 2015, Einstein wrote to his early love Marie Winteler about his marriage and his strong feelings for her. He wrote in 1910, while his wife was pregnant with their second child: "I think of you in heartfelt love every spare minute and am so unhappy as only a man can be." He spoke about a "misguided love" and a "missed life" regarding his love for Marie.^[48]

Einstein married [Elsa Löwenthal](#) in 1919,^{[49][50]} after having a relationship with her since 1912.^[51] She was a first cousin maternally and a second cousin paternally.^[51] They emigrated to the United States in 1933. Elsa was diagnosed with heart and kidney problems in 1935 and died in December 1936.^[52]

In 1923, Einstein fell in love with a secretary named Betty Neumann, the niece of a close friend, Hans Mühsam.^{[53][54][55][56]} In a volume of letters released by [Hebrew University of Jerusalem](#) in 2006,^[57] Einstein described about six women, including Margarete Lebach (a blonde Austrian), Estella Katzenellenbogen (the rich owner of a florist business), Toni Mendel (a wealthy Jewish widow) and Ethel Michanowski (a Berlin socialite), with whom he spent time and from whom he received gifts while being married to Elsa.^{[58][59]} Later, after the death of his second wife Elsa, Einstein was briefly in a relationship with Margarita Konenkova.^[60] Konenkova was a Russian spy, who was married to the noted Russian sculptor [Sergei Konenkov](#) (who created the bronze bust of Einstein at the [Institute for Advanced Study](#) at Princeton).^{[61][62]}

Friends

Among Einstein's well-known friends were [Michele Besso](#), [Paul Ehrenfest](#), [Marcel Grossmann](#), [János Plesch](#), [Daniel Q. Posin](#), [Maurice Solovine](#), and [Stephen Samuel Wise](#).^[63]

Patent office



Albert Einstein in 1904 (age 25)

After graduating in 1900, Einstein spent almost two frustrating years searching for a teaching post. He acquired [Swiss](#) citizenship in February 1901,^[64] but for medical reasons was not [conscripted](#). With the help of [Marcel Grossmann](#)'s father, he secured a job in [Bern](#) at the [Federal Office for Intellectual Property](#), the patent office,^{[65][66]} as an [assistant examiner – level III](#).^{[67][68]}

Einstein evaluated [patent applications](#) for a variety of devices including a gravel sorter and an electromechanical typewriter.^[68] In 1903, his position at the Swiss Patent Office became permanent, although he was passed over for promotion until he "fully mastered machine technology".^{[69]:370}

Much of his work at the patent office related to questions about transmission of electric signals and electrical–mechanical synchronization of time, two technical problems that show up conspicuously in the [thought experiments](#) that eventually led Einstein to his radical conclusions about the nature of light and the fundamental connection between space and time.^{[69]:377}



[Olympia Academy](#) founders: [Conrad Habicht](#), [Maurice Solovine](#) and Einstein

With a few friends he had met in Bern, Einstein started a small discussion group in 1902, self-mockingly named "[The Olympia Academy](#)", which met regularly to discuss science and philosophy. Sometimes they were joined by [Mileva](#) who attentively listened but did not participate.^[70] Their readings included the works of [Henri Poincaré](#), [Ernst Mach](#), and [David Hume](#), which influenced his scientific and philosophical outlook.^[71]

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Etiam vehicula luctus fermentum. In vel metus congue, pulvinar lectus vel, fermentum dui. Maecenas ante orci, egestas ut aliquet sit amet, sagittis a magna. Aliquam ante quam, pellentesque ut dignissim quis, laoreet eget est. Aliquam erat volutpat. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Ut ullamcorper justo sapien, in cursus libero viverra eget. Vivamus auctor imperdiet urna, at pulvinar leo posuere laoreet. Suspendisse neque nisl, fringilla at iaculis scelerisque, ornare vel dolor. Ut et pulvinar nunc. Pellentesque fringilla mollis efficitur. Nullam venenatis commodo imperdiet. Morbi velit neque, semper quis lorem quis, efficitur dignissim ipsum. Ut ac lorem sed turpis imperdiet eleifend sit amet id sapien.

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Nunc ac faucibus odio. Vestibulum neque massa, scelerisque sit amet ligula eu, congue molestie mi. Praesent ut varius sem. Nullam at porttitor arcu, nec lacinia nisi. Ut ac dolor vitae odio interdum condimentum. Vivamus dapibus sodales ex, vitae malesuada ipsum cursus convallis. Maecenas sed egestas nulla, ac condimentum orci. Mauris diam felis, vulputate ac suscipit et, iaculis non est. Curabitur semper arcu ac ligula semper, nec luctus nisl blandit. Integer lacinia ante ac libero lobortis imperdiet. Nullam mollis convallis ipsum, ac accumsan nunc vehicula vitae. Nulla eget justo in felis tristique fringilla. Morbi sit amet tortor quis risus auctor condimentum. Morbi in ullamcorper elit. Nulla iaculis tellus sit amet mauris tempus fringilla.

Maecenas mauris lectus, lobortis et purus mattis, blandit dictum tellus.

Maecenas non lorem quis tellus placerat varius. Nulla facilisi. Aenean congue fringilla justo ut aliquam. Mauris id ex erat. Nunc vulputate neque vitae justo facilisis, non condimentum ante sagittis. Morbi viverra semper lorem nec molestie. Maecenas tincidunt est efficitur ligula euismod, sit amet ornare est vulputate.

In non mauris justo. Duis vehicula mi vel mi pretium, a viverra erat efficitur. Cras aliquam est ac eros varius, id iaculis dui auctor. Duis pretium neque ligula, et pulvinar mi placerat et. Nulla nec nunc sit amet nunc posuere vestibulum. Ut id neque eget tortor mattis tristique. Donec ante est, blandit sit amet tristique vel, lacinia pulvinar arcu. Pellentesque scelerisque fermentum erat, id posuere justo pulvinar ut. Cras id eros sed enim aliquam lobortis. Sed lobortis nisl ut eros efficitur tincidunt. Cras justo mi, porttitor quis mattis vel, ultricies ut purus. Ut facilisis et lacus eu cursus.

In eleifend velit vitae libero sollicitudin euismod.

Fusce vitae vestibulum velit. Pellentesque vulputate lectus quis pellentesque commodo. Aliquam erat volutpat. Vestibulum in egestas velit. Pellentesque fermentum nisl vitae fringilla venenatis. Etiam id mauris vitae orci maximus ultricies. Cras fringilla ipsum magna, in fringilla dui commodo a.

Etiam vehicula luctus fermentum. In vel metus congue, pulvinar lectus vel, fermentum dui. Maecenas ante orci, egestas ut aliquet sit amet, sagittis a magna. Aliquam ante quam, pellentesque ut dignissim quis, laoreet eget est. Aliquam erat volutpat. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Ut ullamcorper justo sapien, in cursus libero viverra eget. Vivamus auctor imperdiet urna, at pulvinar leo posuere laoreet. Suspendisse neque nisl, fringilla at iaculis scelerisque, ornare vel dolor. Ut et pulvinar nunc. Pellentesque fringilla mollis efficitur. Nullam venenatis commodo imperdiet. Morbi velit neque, semper quis lorem quis, efficitur dignissim ipsum. Ut ac lorem sed turpis imperdiet eleifend sit amet id sapien.

