

GRADUATE EXPERIENCE BOOKLET



WINSACADEMY





Introduction

Launched by the World Institute for Nuclear Security (WINS) in April 2014, the WINS Academy is the first online professional certification programme in the world for practitioners with accountabilities for nuclear security. Its goal is to improve worldwide leadership and effectiveness in the implementation and regulation of nuclear security.

The response to this initiative has been encouraging. In just over a year, approximately 550 participants from over 70 countries around the world have enrolled in the Academy, and 50 have now graduated. The certifications awarded to these graduates include Science and Engineering for Nuclear Security, Nuclear Security Executive Management, Nuclear Security Governance, Nuclear Security Communication, and Nuclear Security Incident Management.

This booklet presents the experiences of several of our graduates. As you can see, they believe that the knowledge they have gained through the programme is both inspiring and valuable; they have also found their experiences with the Academy to be positive and responsive.

We wish to acknowledge the time and effort these pioneering alumni have made. As they build on their knowledge, expertise and experience going forward, they will not only inspire others to participate in the Academy, but they will also help to enhance nuclear security worldwide.



AAKANCHHA, INDIA

Certification in Science and Engineering for
Nuclear Security

Ms. Aakanchha is a third year undergraduate student at the Department of Chemical Engineering of the Indian Institute of Technology, Kanpur, India. She also participated in the PNS Nuclear Security Training Series in 2015.

How do you intend to use WINS certification to advance nuclear security?

I intend to use this certification for my further studies which for the moment I wish to pursue in the field of Nuclear Security. Thanks to the certification programme, I have been exposed to the real world scenario, and I intend to utilize what I learned to help improve conditions for stakeholders.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

The WINS Academy is a one of a kind programme that focuses on the right areas and provides an amazing exposure into the real world scenario.



How do you intend to use WINS certification to advance nuclear security?

My participation in the WINS Academy Certification programme was a worthy experience. The materials provided a comprehensive blend of theory and practice. I have about a decade of experience in regulatory oversight of nuclear and radiological facilities coupled with training in world class institutions, and this programme demonstrated to me the link between the two topics of SAFETY and SECURITY. In addition, I can now clearly see the roles STEs can play in enhancing security without compromising safety.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I salute the WINS Academy for this wonderful effort; the programme will motivate STEs further and enhance their understanding of nuclear security!



ADAMU ABDUL, NIGERIA

Certification in Science and Engineering for
Nuclear Security

Mr. Adamu Abdul is Assistant Director at the Nigerian Nuclear Regulatory Authority.

How do you intend to use WINS certification to advance nuclear security?

I have always thought about nuclear security the traditional way—as the exclusive responsibility of the Security Department. But the uniqueness of the knowledge I gained from the WINS Academy e-learning courses not only changed my perspective about nuclear security, but also clarified my responsibility for nuclear security as an engineer. One key advantage of this course to newcomer countries like Nigeria is the opportunity to learn best practices in the nuclear industry, including how to cultivate and entrench Nuclear Security Culture from the beginning. The program also presents a chance to learn how to implement security by design to proposed facilities instead of costly (and potentially intrusive) retrofitting.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

If you have accountability for nuclear security and you have not participated in the WINS Academy Nuclear Security Program, I encourage you to do so. It is a worthwhile experience.



AYODEJI ABIODUN, NIGERIA

Certification in Science and Engineering for Nuclear Security

Mr. Ayodeji Abiodun has a master's degree in Nuclear Engineering from the University of Port Harcourt and currently works at the Nuclear Power Plant Development Division, a Directorate in the Nigeria Atomic Energy Commission. Mr. Abiodun is looking for a Ph.D. opportunity in Nuclear Cyber Security.



RAYMOND AGALGA, GHANA

Certification in Science and Engineering for Nuclear Security

Mr. Raymond Agalga currently works as a nuclear security regulator and researcher for the Nuclear Safety Security and Safeguards Centre of the Radiation Protection Institute, GAEC, in Accra, Ghana.

How do you intend to use WINS certification to advance nuclear security?

I have benefitted immensely from taking the certification course for Scientists, Technicians and Engineers. I firmly believe the WINS certification programmes will help change perceptions toward nuclear security and lead to greater security globally as more and more people enroll and build competence in their areas of responsibility. Through the STE module, I have come to appreciate my role in the overall security of my establishment and to understand how I can influence security issues.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

Although I had a busy schedule at work, I found time to go through the modules. I must admit they contained the right information I needed as a scientist in a nuclear research institution and they were also easy to follow through. The WINS monthly quizzes, exam preparation package, and carefully structured study plan and textbooks were of great help to me. I want to thank the personnel of the WINS Academy for their swift response to questions about the course and the supportive role they played. I would not hesitate to recommend the programme to any individual, institution or organization.

**MBET AKPANOWO, NIGERIA**

Certification in Science and Engineering for Nuclear Security

Mr. Mbet Akpanowo is Assistant Chief Regulatory Officer in the Department of Nuclear Safety, Physical Security and Safeguards at the Nigerian Nuclear Regulatory Authority (NNRA).

How do you intend to use WINS certification to advance nuclear security?

I have been largely involved in the oversight of physical security upgrades and the development of DBTs for high-risk nuclear and radiological materials and their facilities. The WINS Academy provided me a comprehensive overview of nuclear security and a good lesson learnt is that managing a complex nuclear security programme has gone beyond the traditional 'guns, guards and gates'. Having successfully passed the certification exams, I will harness my knowledge as a scientist and nuclear regulator to ensure effective nuclear security within my organization and for facilities under the regulatory control of the NNRA.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

The knowledge gained through the WINS Academy programme is invaluable. Therefore, I wish to recommend it not only to security personnel or scientists, technicians and engineers but to all professionals in the nuclear industry worldwide. This is indeed one way of promoting a self-sufficient nuclear security culture worldwide.

**How do you intend to use WINS certification to advance nuclear security?**

Kenya is a newcomer country in nuclear power, and this programme will help me motivate my colleagues and other Kenyans charged with nuclear security responsibilities to join the WINS Academy. Since we are also a member of the Nuclear Security Coordination Centre (NSCC), this will really help us in our mandate to establish a robust regime of nuclear security in Kenya.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

My experience with WINS certification has been an inspirational moment of deeper understanding of the nuclear security subject. Thanks to its exceptional work, the WINS Academy is making nuclear security an important topic in the peaceful application of nuclear technology.

As the first graduate from Kenya to successfully pass the Academy certification exams, I call upon all other persons mandated with the task of nuclear security or who are interested in nuclear security to start with the WINS Academy programme as of first importance. No other platform covers the multiple aspects of nuclear security in such a clear, easy and comprehensive way.

**EDWIN CHESIRE, KENYA**

Certification in Science and Engineering for Nuclear Security

Mr. Edwin Chesire is a Technical Officer at the Kenyan Nuclear Electricity Board.

How do you intend to use WINS certification to advance nuclear security?

I had thought that nuclear security was a branch of “general” security characterised by high walls, guns and guards that a nuclear organization provides. I had also thought that nuclear security should be the responsibility of the security forces and department, at least, in keeping with the job description. But the insight provided by the WINS Academy Certification Programme changed my mindset. Now I am more equipped and better prepared for a role in assuring greater security and safety of our facility.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

The WINS Academy certification programme brings to bear those important aspects of nuclear security that are absolutely necessary for a robust security in a nuclear facility. The scope of the programme is insightful and encompasses all relevant areas for demonstrable competence on nuclear security.



ANYAEGBU CHAD CHINAEMELU, NIGERIA

Certification in Science and Engineering for
Nuclear Security

Mr. Anyaegbu Chad Chinaemelu is a scientific officer at
the Nigeria Atomic Energy Commission.



DMYTRO CHUMAK, UKRAINE

Certification in Science and Engineering for
Nuclear Security

Mr. Dmytro Chumak is Head of the Information and
Analytical Sector at the State Scientific and Technical
Center for Nuclear and Radiation Safety in Kiev, Ukraine.

How do you intend to use WINS certification to advance nuclear security?

My current position requires substantive knowledge and understanding of the main principles of nuclear security because I have to provide the general public with competent information on different aspects within this issue. The WINS Academy experience was extremely valuable in this regard for the accomplishment of assigned tasks at work.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I would strongly encourage all experts from different domains, like academia or industry, which have relations to any aspects of nuclear security to enroll in the WINS Academy Programme. It will be an investment in your future successful career!



JAFARU MUSA EGIEYA, NIGERIA

Certification in Science and Engineering for Nuclear Security

Mr. Jafaru Musa Egieya is a scientific officer at the Nigeria Atomic Energy Commission. He holds a bachelor's degree in Chemical Engineering and a master's degree in Nuclear Engineering.

How do you intend to use WINS certification to advance nuclear security?

In the past four years since commencing my career in the nuclear industry, I have been working on safety related programmes. I never saw the need to engage in nuclear security. I always thought nuclear security should be the job of my colleagues who were formerly military or police personnel. Furthermore, I had the notion that security training programmes were not easily found or even freely available due to confidentiality clauses. These perceived notions all changed when I took and passed the WINS Academy Foundation module and the Scientists, Technicians and Engineers module.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I encourage people from all over the world to participate in WINS Academy courses. The knowledge gained is well worth it!



How do you intend to use WINS certification to advance nuclear security?

Since 2010, Moroccan universities have started developing and incorporating nuclear security curricula in their educational programmes for nuclear scientists and engineers. I benefited from basic courses on nuclear security, and I had the opportunity to complete the WINS Academy programme for Scientists, Technicians and Engineers (STEs). I learned a lot of information, such as the international nuclear security instruments, the international and industry stakeholders, the interface between STEs and security and so forth.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

The WINS Academy has changed some of my beliefs and attitudes, specifically with regards to my responsibilities and the role that I have to play in nuclear security. It also raised my awareness in several topics, which gave me new perspectives about the nuclear security field. This is why I encourage all students who want to develop their careers in nuclear security to enroll in the WINS Academy.



YOUNESS ESSERHIR EL FASSI, MOROCCO

Certification in Science and Engineering for Nuclear Security

Youness Esserhir El Fassi is a graduate student from the master's degree programme on Nuclear Techniques and Radiation Protection at the University of Ibn Tofail in Kenitra, Morocco.

How do you intend to use WINS certification to advance nuclear security?

Thanks to the WINS Academy Programme, I am now able to better understand why the world community is trying to fulfill the gap between Nuclear Security and Nuclear Safety.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

As a nuclear power engineer with a focus on the nuclear safety side of NPPs and emergency preparedness, I have always wondered about the interface between nuclear safety and nuclear security. Why is it that we don't learn or study nuclear security but continue to place such stress on nuclear safety? Fortunately, the WINS Academy programme for Scientists, Technicians and Engineers gave me the opportunity to seek an answer to my question.

The e-learning platform was well developed and very easy to explore, and the quality of the information and knowledge was very satisfying. The answers to my questions were also there. As a matter of fact, thanks to the WINS Academy programme, I found that nuclear security is the "shy hidden twin sister" of nuclear safety that is only now being recognized to be as important as it is.

I wish to encourage my peers to take this course.



ISLAM EL HADJ, TUNISIA

Certification in Science and Engineering for Nuclear Security

Mr. Islam El Hadj is a Nuclear Power Engineer who works for the Tunisian Power and Gas Utility.



SIMON GILLETT, UK

Certification in Nuclear Security Executive Management

Mr. Simon Gillett is the Nuclear Liaison Manager at EDF UK and is studying for a master's degree in Nuclear Safety, Security and Safeguards under Professor Laurence Williams, at UCLan, Lancashire, UK.

How do you intend to use WINS certification to advance nuclear security?

As a professional who works with the nuclear industry, achieving an understanding of the regulatory framework within which the industry operates is incredibly important to me. Achieving also an understanding of how nuclear security programmes are governed and implemented provides me with an opportunity to contribute to this incredibly important topic.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

The WINS Academy Nuclear Security Foundation Module and the Executive Management Module provided me with a thorough and accessible overview of the critical aspects of nuclear security that are important to many who interface with nuclear technology. The course syllabus was very clear, very well structured and well resourced. There were also plenty of opportunities to consider deeply the consequences of different options available to nuclear professionals and executives when it comes to maintaining the security of their activities and facilities. I would happily recommend the WINS Academy Programme to other professionals in the nuclear industry.

**MUHAMMAD BELLO GUSAU, NIGERIA**

Certification in Science and Engineering for Nuclear Security

Mr. Muhammad Bello Gusau has been a regulatory officer at the Nigeria Nuclear Regulatory Authority since 2011. He is currently pursuing a master's degree in Radiation Protection from the University of Ibadan in Nigeria.

How do you intend to use WINS certification to advance nuclear security?

The WINS Academy Certification Programme has helped me to understand that security is a mirror image of safety and that there is a need to encourage the cross-functional relationship between security personnel and their counterparts in the safety department in order to close the perceived gap between the two.

For effective and efficient nuclear security management, I recommend that the relevant organizations promptly establish a structured interface between departments (if it is not already in existence) and ensure that their personnel meet regularly to share and resolve issues.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I recommend WINS Academy programmes for personnel who want to become specialists in the field of Nuclear Security.

**How do you intend to use WINS certification to advance nuclear security?**

Now that I have obtained the WINS Academy certification, which shows that I am qualified, I feel more empowered to promote nuclear security at my university.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

The WINS Academy Programme for Scientists, Technicians and Engineers provided me with an opportunity to obtain certification in nuclear security. As of today in my workplace, this certification means that I have qualification and authority to lecture on the topic of nuclear security. Doing this programme gave me a whole new perspective on nuclear security, i.e. nuclear security is not the responsibility of only the security department at a nuclear facility but of every worker at the facility. I hope that people involved with nuclear security from different organizations all over the world will consider doing the WINS Academy courses because it will make them aware of their role in their organization when it comes to nuclear security.

**MARK HERBERT, SOUTH AFRICA**

Certification in Science and Engineering for Nuclear Security

Dr. Mark Herbert is a senior lecturer in the Physics Department at the University of Western Cape in Bellville, South Africa.

How do you intend to use WINS certification to advance nuclear security?

I will share my success with my colleagues at ABU through nuclear security workshops and seminars. These activities will motivate my colleagues to pursue WINS certification. Similarly, I will introduce new nuclear security modules into my courses so that students improve their awareness and understanding. I now understand that nuclear security culture involves everyone.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

Before taking the WINS Academy module, I never knew my role was critical for nuclear security issues at my facility. As I took those modules, my perspective was completely changed from safety consciousness to safety and security. It was clear to me that safety and security must be integrated at critical facilities. Nuclear/ radioactive materials need to be secured just as the heart is protected by the ribs from external objects. Imagine what happens to the heart without the ribs. Think of yourself as one of the many ribs to your facility. Your contribution to the security of your facility is vital. You can find out how to become the rib to your facilities in the WINS Academy Education Programme; get certified.



YAKUBU VIVA IBRAHIM, NIGERIA

Certification in Science and Engineering for Nuclear Security

Dr. Yakubu Viva Ibrahim is a reactor physicist at Ahmadu Bello University's (ABU) Center for Energy Research and Training. He is also the first graduate of the WINS Academy Programme.



RONKE AYO-IMORU, NIGERIA

Certification in Science and Engineering for Nuclear Security

Ms. Ronke Ayo-Imoru has been a scientific officer at the Nigeria Atomic Energy Commission since 2009; she is now carrying out research on harnessing nuclear technology. Ms. Ayo-Imoru holds a master's degree from the University of Port Harcourt.

How do you intend to use WINS certification to advance nuclear security?

I gained a lot in the program and have decided to put my knowledge to practice by encouraging my colleagues to participate in the WINS Academy. I believe it will greatly improve the nuclear security culture of my organization and even help in the present developmental stage of my country's national nuclear power program.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I found the WINS Academy Programme to be all embracing. It has helped in changing my perception about security as a whole.



SUNDAY JONAH, NIGERIA

Certification in Science and Engineering for Nuclear Security

Mr. Sunday Jonah is a professor at the Centre for Energy Research and Training, Ahmadu Bello University, Zaria, Nigeria.

How do you intend to use WINS certification to advance nuclear security?

I intend to embark on development of curriculum in nuclear security towards a certificate/diploma for scientists, technicians and engineers in stakeholder institutions in Nigeria and indeed the African region.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

Participation in the programme has deepened my knowledge of the nuclear security fundamentals needed to make our world more safe and secure in view of the ever changing threat, especially from non-state actors.



How did you come to know WINS Academy?

I came to know about WINS Academy when I was in Oxford University during a summer institute training conducted by World Nuclear University in 2014. During this intensive six-week programme of future nuclear leaders, one of the subjects was nuclear security, which was presented by a WINS representative. Even though the subject of nuclear security plays an important part in nuclear energy and other radioactive materials, it is not included in the current curriculum in universities. Not only are there few books available on this topic, but there is also a scarcity of competent authorities on it. This subject has sparked my interest in learning more about the current challenges facing the industry when it comes to ensuring security for nuclear and other radioactive materials.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

Students in this course will be able to fill in their gaps in knowledge in comparison to the courses taught in the classroom. It is important to learn about nuclear security if we want to protect our industry effectively. For practitioners, the course can equip them to integrate the real environment with the given best practices. The nuclear security certification is useful for every technical person who is working with nuclear and other radioactive materials.



ABDALAH KILEO, TANZANIA

Certification in Science and Engineering for Nuclear Security

Mr. Abdalah Kileo is the first Tanzanian graduate of the WINS Academy module for Scientists, Technicians and Engineers. He is currently study for a master's in Nuclear and Energy Safety Engineering at Fukui University in Japan.

How do you intend to use WINS certification to advance nuclear security?

In Finland, we have a pretty good network and numerous cooperation opportunities between the private security sector, nuclear facilities and different authorities. We also have a high quality education system. One thing is missing though: basic training for nuclear security. Now, having passed both the Foundation Module and the Elective Module for Executive Managers, I must admit that I have gained a lot of new ideas and perspectives. As shown in the elective, combining security and business is very important nowadays. It is crucial to know how to speak the business language and how to prove to others that your security programme is effective.



JUSSI KIVINEN, FINLAND

Certification in Nuclear Security Executive Management

Mr. Jussi Kivinen is a security expert for Fortum Power and Heat Oy in Finland.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I personally hope that experts from different countries and organizations will participate in these WINS Academy courses. This is one way to establish and develop a nuclear security culture worldwide. The e-learning course itself was easy to use. It was very important to have the WINS Best Practice Guides online, as well as other important documents. There was also a great list of additional reading included, which I found very beneficial for future needs. Although I'm not a native English speaker, I didn't meet any insuperable language difficulties during the training course or exams. Because of possible change in my future career, the WINS personnel recommended that I complete the Elective Module for Executive Managers. I found it very interesting and beneficial.



TEBOGO G. KUPI, SOUTH AFRICA

Certification in Science and Engineering for Nuclear Security

Mr. Tebogo G. Kupi works as a radiation protection officer and lecturer of Radiation and the Environment course at North-West University, Republic of South Africa. He holds a master's degree in Applied Radiation Science and Technology.

How do you intend to use WINS certification to advance nuclear security?

The WINS Academy certification in Science and Engineering for Nuclear Security has provided me with unique perspectives on safety and security development best practices, such as integrating safety, security and policy topics into physics, radiation science and nuclear engineering curriculum and the use of case studies to highlight the importance of nuclear security culture for technical experts. I will use the knowledge gained to design many excellent courses on nuclear security.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I encourage experts from South Africa and other countries worldwide to participate in WINS Academy courses. The course is particularly helpful in gaining a deeper understanding of current nuclear security challenges and best practices. The knowledge gained from this course changed my beliefs—from a sole focus on safety at critical facilities to the need for integrating safety, security and safeguards.

**AYOADE KUYE, NIGERIA**

Certification in Science and Engineering for Nuclear Security

Dr. Ayoade Kuye holds a Ph.D. in Chemical Engineering and has almost 30 years of experience in teaching process engineering. He currently works for the Centre for Nuclear Energy Studies at the University of Port Harcourt in Nigeria.

How do you intend to use WINS certification to advance nuclear security?

As an engineer, I used to feel that security is the primary responsibility of the armed forces and that my business was to ensure smooth operation of plant processes. Of course, security was not part of the curriculum when I was in the university, rather the emphasis was on safety. The WINS Academy Programme has taught me that safety and security are indeed interrelated and complimentary to each other. It also changed my narrow perception of security. I now understand that security issues should be considered at every stage in the plant lifecycle, starting with the conceptual and design stages.

As a teacher, I have learnt a lot from the structure of the course material. And as an administrator whose responsibility includes the setting up of nuclear engineering research laboratories, the programme has widened my understanding of the requirements that need to be put in place to ensure the security and safety of materials and personnel.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I would definitely encourage more engineers in Nigeria to enroll in this programme.

**How do you intend to use WINS certification to advance nuclear security?**

I learned a lot from the WINS Academy Programme, starting from who are the different stakeholders and their responsibilities and the history of nuclear energy and security issues throughout the process of fuel fabrication. I got the opportunity to learn about the many international institutions and the international instruments as well. In addition I was able to understand how to integrate safety and security in an organization.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

This Certification was a great achievement for me and my colleagues in our INMM Student Chapter at the University of Ibn Tofail. I highly encourage students and personnel working in nuclear sectors to enroll in the WINS Academy in order to benefit from the course and keep the world safe and secure.

**TAHA LAGHOUAZI, MOROCCO**

Certification in Science and Engineering for Nuclear Security

Mr. Taha Laghouazi is a Ph.D. candidate at the University of Ibn Tofail in Kenitra, Morocco. He is currently the president of the University's INMM Student Chapter.

How do you intend to use WINS certification to advance nuclear security?

As a student, the WINS Academy Certification for STEs provided me with training in nuclear security, which complemented the knowledge and skills that I am gaining through my master's degree. The program gave me the necessary experience to contribute efficiently in building security culture within my future organization. At the end of this course, I became conscious of the personality traits that I should possess and which can broaden my perspectives to contribute efficiently towards nuclear and radiological security.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I encourage every student worldwide who is involved in the nuclear domain to participate in the WINS Academy Certification Program for STEs as it is a great opportunity to learn and establish nuclear security culture within their future organizations and their countries.



ASSIA LASFAR, MOROCCO

Certification in Science and Engineering for Nuclear Security

Ms. Assia Lasfar is a student in the Specialized Master for Nuclear Techniques and Radiation Protection programme at the University of Ibn Tofail-Faculty of Sciences, Kenitra, Morocco.



LIJUN LIU, CHINA

Certification in Nuclear Security Executive Management

Mr. Lijun Liu is the Supply Chain Director at AREVA Asia.

How do you intend to use WINS certification to advance nuclear security?

Taking the elective course and getting the certificate will surely benefit my career, but most importantly it helped me contribute to my company's daily operations and communications.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I recommend that all professionals in the Nuclear Industry register for the programme.

**ERIC MACARTHUR, CANADA**

Certification in Nuclear Security Executive Management

Mr. Eric MacArthur is an adjunct professor for the Canadian Forces College, where he offers online master's-level courses for staff education. As a consultant, he is helping Bruce Power in Ontario, Canada, implement a Centre of Excellence for Nuclear Security and Emergency Management. The goal is that the CoE will

become a globally recognized source of training, information and advisory services for leaders and practitioners in selected areas of expertise.

How do you intend to use WINS certification to advance nuclear security?

I do not have a background in the nuclear industry, so the WINS Academy Foundation and Executive Manager modules have provided a significant educational experience that enhances my role as a consultant in planning processes.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I am familiar with the positive and negative aspects of web-delivered distance learning, so I was pleased to learn that the WINS Academy programme is informative, well-designed, user-friendly and highly effective. Everything worked perfectly, including the examination process. The WINS Academy staff are highly professional and approachable.

**How do you intend to use WINS certification to advance nuclear security?**

The courses have made me want to know more; they've generated within me interest and passion for the nuclear industry (and even inspired me to eventually study all of the elective modules). They have also given me confidence as a security practitioner in particular.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

From all my security studies (academic included) I have never had such a systematic, well-organised, comprehensive yet concise, type of module that gives all stakeholders the whole perspective of an industry in one place! I am fully persuaded that it will be a grave mistake for all managers in the nuclear industry not to have this module. From my personal experience and the knowledge I've acquired, this course is like a complete toolbox of the entire nuclear field compressed into one module. I recommend it to all nuclear stakeholders.

**MAFIHLA MALEKA, SOUTH AFRICA**

Certification in Nuclear Security Incident Management

Mr. Mafihla Maleka is a physical security manager at the South African Nuclear Energy Corporation (NECSA) in South Africa.

How do you intend to use WINS certification to advance nuclear security?

The experience with WINS can be summarized as a 'WIN - WIN Situation.' The prospects it offers are imperative and futuristic. The systematic outline of the course content across relevant themes makes for a balanced learning curve. The content is not overly technical, but it engages all faculties of the mind towards practical application.

The materials can be useful for diagnosis and troubleshooting of security apparatus in many organisations, especially with the global rise in cyber attacks on industrial and governmental network infrastructure.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

Overall, the course is an exciting endeavour adaptable for the fastidious and spontaneous.



JEREMIAH MBAZOR, NIGERIA

Certification in Science and Engineering for Nuclear Security

Mr. Jeremiah Mbazor has been a scientific officer at the Nigeria Atomic Energy Commission since 2010. He is currently attending the Kpeco International Nuclear Graduate School in Ulsan, Korea.



INNOCENT OCHEME, NIGERIA

Certification in Science and Engineering for Nuclear Security

Mr. Innocent Ocheme is Principal Scientific Officer at the Nigeria Atomic Energy Commission.

What would you say about the WINS Academy Programme?

The WINS Academy Certification Programme has indeed catalysed a revolutionary nuclear industrial paradigm shift that concerns in-depth awareness and a positive attitude change among stakeholders towards the strategic twin necessity of safety and security.

**DIM UDOCHUKWU ODERA, NIGERIA**

Certification in Science And Engineering For Nuclear Security

Mr. Dim Udochukwu Odera has a master's degree in Nuclear Engineering from the University of Massachusetts and specializes in depletion and related calculations.

How do you intend to use WINS certification to advance nuclear security?

My home country, Nigeria, has an experienced workforce that spans almost every facet of interest to nuclear engineering. There has been a push to adopt nuclear as a source of base load power supply. However, this will be facilitated if Nigeria is able to prove to the international stakeholders that it not only has the technical knowhow but also a proper understanding of how to implement a flexible and effective security and safety model. The advice given to me by the director of Integrated Nuclear Security and Safeguards Laboratory (INSSL) at the University Of Massachusetts, Lowell, to take the WINS Academy course will stand as some of the best in my career. The course revealed to me amongst other things the broad scope of the nuclear fuel cycle, some of the vulnerabilities that exist in it, and how these can be catered for by implementing some of the guidance supplied by the IAEA and WINS.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

The WINS Academy Programme is a unique opportunity for experts in different areas and from countries around the world to broaden their knowledge base on a number of topics related to nuclear; these can then be extended in practice to their various organizations. I would encourage every practicing nuclear engineer to participate in the WINS Academy courses.

**How do you intend to use WINS certification to advance nuclear security?**

I have gained a broader insight from the WINS Academy Course. The courses have been a positive experience for me because they provided me with new perspectives about the Nuclear Security field.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I would like to thank all the WINS Academy Team for an interesting programme, which has improved my knowledge, skills, and experience and given me the ability to make a strong contribution to my organization's security programme. I personally encourage individuals who want to build their careers in the nuclear industry to start the WINS Academy.

**FESTUS OTUNOMO, NIGERIA**

Certification in Science and Engineering for Nuclear Security

Mr. Festus Abayomi is a regulator with the Nigerian Nuclear Regulatory Authority.

How do you intend to use WINS certification to advance nuclear security?

I am a physicist and radiation safety professional with experience in the development and implementation of a national regulatory programme. I believe that WINS Certification will improve my ability to control radiation sources, in particular inspection, emergency preparedness and response, and the training and development of regulations and guides.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

I feel very privileged to be part of an experience like WINS Academy Certification in Science and Engineering for Nuclear Security because the study of nuclear security is not covered in traditional science and engineering curricula. The course gave me a better understanding of current and emerging issues related to nuclear security, such as the need for stakeholder involvement and the integration of safety, security, and safeguards for a better security regime. I encourage stakeholders in nuclear matters to enroll in WINS Academy programmes as part of their career development. It is critical for leadership to consistently communicate, plan, practice and work together to achieve commonly-identified goals to increase safety and security and to manage security as a strategic risk across the entire organization. It is also time to depart from the traditional approach to security as an isolated entity to a modern approach to security that integrates it with other all other aspects of the organisation.



ISA SAMBO, NIGERIA

Certification in Science and Engineering for Nuclear Security

Mr. Isa Sambo is a regulator with the Nigerian Nuclear Regulatory Authority.



EDWARD WALLER, CANADA

Certification in Science and Engineering for Nuclear Security

Mr. Edward Waller is a professor and the Acting Dean at the University of Ontario Institute of Technology. He also has a background in Health Physics, Emergency Response and CBRN issues.

How do you intend to use WINS certification to advance nuclear security?

The WINS certification provides enhanced credibility in the field of nuclear security; it also provides a basis for developing State demonstrable competence programs in nuclear security.

What would you recommend to other professionals in the nuclear community who haven't yet enrolled in the WINS Academy Programme?

The importance of nuclear security, in the global sense, has been underscored through the Nuclear Security Summits, and the issue of qualifications of personnel in nuclear security is very important. The WINS Academy certification programme is the first global initiative in providing a common knowledge assessment in nuclear security topical areas. The WINS Academy, along with their testing centre, were very responsive to questions and suggestions related to the certification process. For example, based upon participant feedback, the WINS Academy has made available hard copies of material for those who desire this format. The study materials were well formatted and relevant, and the testing was professional and appropriate. I would encourage persons engaged in nuclear security, or with a general interest in nuclear security, to pursue the WINS Academy certification.

The WINS Academy in Numbers

- 6** Modules published
- 4** Modules under development
- 560** Participants from **75** countries
- 140** Certificates issued

Get in touch with the WINS Academy

To learn more about WINS Academy Programme, please contact us.

Email: thewinsacademy@wins.org

Website: www.wins.org/academy

World Institute for Nuclear Security

19 Graben

1010 Vienna, Austria

Version 1.0 | October 2015

© 2015 World Institute for Nuclear Security

All rights reserved.

Without limiting the rights under copyright reserve above, no part of this publication may be reproduced, stored in or introduced into a retrieval system, or transmitted, in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise) without the prior written permission of the publisher



WINSACADEMY

OUR VISION

All nuclear and other radiological materials and facilities are effectively secured by demonstrably competent professionals applying best practice to achieve operational excellence.

OUR MISSION

To be the leader in professional development and certification for nuclear security management.

World Institute for Nuclear Security (WINS)

Graben 19, A-1010 Vienna (Austria) | Tel.: +43 1 23060 6083 | Fax: +43 1 23060 6089

Email: info@wins.org | Internet: www.wins.org

International NGO under the Austrian Law BGBl. | Nr.174/1992 GZ: BMeiA-N9.8.19.12/0017-I.2/2010

2015 © World Institute for Nuclear Security (WINS) | All rights reserved. Design by RAUM3 print.web.mobile