

**POSTGRADUATE DIPLOMA IN PESTICIDE RISK MANAGEMENT (DPRM)
(MG021)**

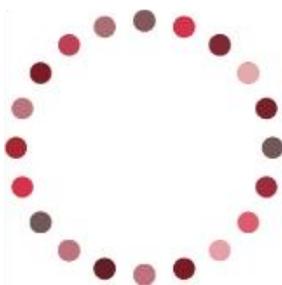
PROGRAMME BROCHURE 2022/2023



Division of Environmental Health | UCT

**Division of Environmental Health
School of Public Health and Family Medicine
Faculty of Health Sciences
University of Cape Town**

<http://www.health.uct.ac.za/fhs/departments/publichealth>



Division of Environmental Health
School of Public Health and Family Medicine
Isikolo Sempilo Yoluntu kunye Namayeza Osapho
Departement Openbare Gesondheid en Huisartskunde



UNIVERSITY OF CAPE TOWN
IYUNIVESITHI YASEKAPA - UNIVERSITEIT VAN KAAPSTAD

DEADLINE FOR APPLICATIONS: 30 September 2020

PROGRAMME COMMENCES: February/March 2021

DIPLOMA IN PESTICIDE RISK MANAGEMENT

(DPRM) (MG021)

PROGRAMME BROCHURE [2022/23](#)

**Division of Environmental Health
School of Public Health and Family Medicine, Faculty of Health Sciences
University of Cape Town (UCT)**

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CONTENTS	PAGE
INTRODUCTION	4
1. PROGRAMME OBJECTIVES	5
2. CURRICULUM REQUIREMENTS AND ORGANISATION	6
3. GENERAL INFORMATION	10
3.1. Fees	11
3.2. Financial Assistance	12
4. PROGRAMME CONTENT	12
4.1 COURSES	12
4.1.1 Pesticide Risk Management (PPH4033F/S)	13
4.1.2 International Chemicals Management Agreement (PPH4041F/S)	13
4.1.3 Health and Safety Management (PPH4041F/S) (PPH4034F/S)	13
4.1.4 Management of environmental risk including, eco-toxicology, risk assessment and basic environmental chemistry (PPH4035S)	14
4.1.5 Public Health & Pesticides (PPH4042S)	14
4.1.6 Containers & Contaminated Site Management (PPH4040S)	15
5. KEY EXIT COMPETENCIES	15
6. APPLICATION CHECKLIST	16

INTRODUCTION

This brochure provides the detail needed to assist prospective candidates in deciding whether the **Postgraduate Diploma in Pesticide Risk Management (DPRM)** programme suits their needs.

Students interested in applying for this course should send an email for instructions to: dprm@uct.ac.za



Prospective students must first apply on-line at:

<http://applyonline.uct.ac.za>

Applicants are strongly encouraged to put as their second choice, the Division's **postgraduate diploma in Pesticide Risk Management - DPRM (MG021)**

Once you have your student number, please email it to: dprm@uct.ac.za



Information about the Division of Environmental Health is available at: http://www.publichealth.uct.ac.za/phfm_environmental-health



General information about the University of Cape Town (UCT) is available at: www.uct.ac.za.

The DPRM programme is structured around the **International Code of Conduct on Pesticide Management** (the Code - <http://www.fao.org/agriculture/crops/thematic-sitemap/theme/pests/code/en/>) published by **Food and Agriculture Organisation of the United Nations (FAO) and World Health Organisation of the United Nations (WHO)**. The Code offers a holistic and comprehensive guideline for managing all aspects related to pesticides and the DPRM focuses on implementation of the Code particularly for pesticide risk managers and those involved in pesticide risk reduction in developing countries and countries in transition.

The DPRM is a two-year part-time flexible learning programme with a substantial distance learning component using internet based educational technology. **It includes a mandatory two-week residential session at UCT at the beginning of the two-year cycle.** There will be substantial requirements for homework in the form of assignments and project related work, expected self-directed learning and regular distance communication between students and lecturers extending over the two years.

1. PROGRAMME OBJECTIVES

1.1. Pesticide Risk Management

The primary purpose of this qualification is to strengthen regulators and others in their ability and capacity to effectively manage, regulate and reduce pesticide risks as no one discipline covers all the facets of pesticide regulation and management in line with the Code. Therefore, this programme will be multi-and interdisciplinary in its content in order to provide students with the skills and knowledge required for managing and reducing pesticide risks, particularly in difficult pesticide use environments found in developing countries and economies in transition.

Intense global use of pesticides poses a high risk of acute and chronic health effects to the general public and workers, as well as environmental contamination. Key role players in regulating, managing and reducing pesticide risks in African and other developing countries lack the capacity to adequately and effectively regulate and manage pesticides as their training does not cover the all of the technical and social aspects required. Some of the consequences of not having specialized training on pesticide risk management for regulators and others, are that workers and vulnerable groups (children, women, immune deficient) are poisoned and/or have long term health effects, the environment is polluted from uncontrolled use and improper disposal, and highly toxic pesticides are used rather than substituted with less toxic alternatives.

Currently, key role players in pesticide risk management in Africa and other developing countries do not have access to postgraduate courses on pesticide risk management that addresses the principal areas covered by the Code.

1.1. Target candidates

The DPRM is **aimed primarily at regulators of pesticides**, inspectors (health, labour, customs and environment), public health pest control managers, disposal and waste management managers, but is also suited for academics, researchers, NGO and United Nations staff and others working in the field of pesticide/chemicals management.

Places are available to students from other countries, particularly in Africa and other developing countries.

Individual courses will be open, subject to any limitation on numbers, to candidates from other postgraduate degrees at UCT and to individuals interested in single semester courses not for degree purposes.

Individuals wishing to complete only one course and not the whole programme may register as an **occasional student** (<http://www.students.uct.ac.za/students/applications/apply/forms>) A successfully completed course can be used to fulfil requirements in future should the individual apply to the full programme. Occasional students need to meet the same entry requirements as full programme applicants.

2. CURRICULUM REQUIREMENTS AND ORGANISATION

2.1. Time commitment

This programme is a two-year part-time flexible learning programme with a substantial distance learning component using internet based educational technology. Students should put in at least half an hour a day.

2.2. Entry requirements

- An approved undergraduate degree in agriculture, health, toxicology, chemistry, social science or other relevant field from this University or from another university recognized by the Senate for this purpose.
- Experience in any relevant pesticide, pest or pesticide/chemicals management field; applicants must submit a letter of motivation highlighting these skills and current employment
- Demonstrated fluency in written and spoken English (TOEFL required where appropriate)
- Reliable and continuous computer connectivity; applicants are required to complete Vula exercises to demonstrate their connectivity
- Demonstrated computer literacy; applicants are required to complete Vula tests
- Proven ability in writing technical reports and assessments
- Numeracy literacy (applicants will be required to write a numeracy test), and
- Completion of a chemistry foundation course; applicants will be required to write a chemistry test

2.3. Programme structure

Each student is required to complete **four core courses** and **two electives**. All students must successfully complete the four core courses before completing two electives of their choice. Each course is worth **20 Higher Education Qualifications Framework (HEQF) credits** and students are required to complete a **total of 120 HEQF credits**.

Each course has a theme around which the inputs are organised in relation to aspects of the Code. Teaching inputs are intended to be non-didactic, and to allow student participation wherever possible. Candidates are expected to undertake substantial homework preparation and activities, as well as self-directed learning. They will be expected to read widely and intensively around topics of the programme, and to contribute to teaching inputs themselves either directly or by way of specially structured interactive debates and discussions in an on-line chat room forum, as well as through posting discussions on-line. The content of these activities will include critical appraisal of the elements of the Code, implementation of the Code; literature on pest and pesticide management, toxicological risk assessment, environmental and impact risk assessment, pesticide policy and politics, international conventions, and the life-cycle analysis; project work, presentations by students as well as assignments relating to the theme of each session within courses.

Practical activities on addressing pesticide occupational and environmental health problems, environmental contamination, management of stockpiles, etc., will take the form of assignments for each course within each course. These assignments are designed to equip candidates with the capacity to implement the Code, pesticide risk management and risk reduction strategies relevant for developing country contexts through exercises, for example, such as developing a needs assessment, health risk assessment, ecotoxicology risk assessment, gap/situation analysis and a stocks/container management inventory.

Final assignments will be at the end of each course covering core course material. These count for 40% of the final marks. The rest of the marks arise from continuous assessment by way of assignments tests and student contribution to asynchronous and synchronous learning activities.

2.4. Computer hardware, software and skills required of students

As this course contains a substantial component of online and self-directed learning, it is imperative that the applicant understands the requirements for computer hardware, computer software, computer skills, time spent working on the course while off campus and student participation expectations if accepted into the course.

In short, candidates should have good and easy access to a reliable computer, and have familiarity and facility with computers, email, the internet and the software below.

2.4.1 Computer Hardware Specifications Requirements

2.4.1.1 a Windows XP or VISTA or Apple MAC operating system

2.4.1.2 At least 1GB RAM and 2GHz processor speed (otherwise pages could be slow to load)

2.4.1.3 Sound card with microphone and speakers/headphones

2.4.1.4 48 x CD ROM drive

2.4.1.5 Screen resolution should be at least 800x600 and set to a colour depth of at least "High Colour (16

2.4.2 Computer software Specifications:

- Microsoft Office software including:
 - Word
 - Excel
 - PowerPoint
- Outlook express or equivalent email handling software
- At least Internet Explorer version 8
- Windows Media Player to run some of the interactive materials
- Have fast broadband access and connectivity to the Internet either at home or at work, preferably both.

2.4.3 Other computer skills

Students should be able to **type** at a speed of at least 15 words a minute, and if not be prepared to either learn to touch-type (software available to learn on your own computer) or to obtain voice recognition typing software.

2.4.4 Important computer information for Students

- Candidates will have to bear Internet Service Provider subscription costs in order to participate meaningfully in the web based distance learning programme (an online learning environment called VULA) in order to view learning materials, to download these for printing, to participate in asynchronous bulletin board discussions, synchronous chat groups, and to do exercises and online tests from time to time. There will however be savings to students as a result of decreased face to face time in Cape Town which will offset any (smaller) costs of increased internet connect time and printing at home.

- Prospective candidates will have to undergo **tests** which will establish whether they are able to meet all the necessary hardware and software requirements to enable participation in the distance learning aspects of the course. If these are failed, they will be encouraged to upgrade hardware and software and/or learn the necessary computer skills that will be required to enable participation in the distance learning aspects of the course. If the test is not passed and it is not possible to upgrade hardware, software or improve computer skills, it will not be possible to be accepted into the course.

2.5. Assessment of student performance

Formative assessments count 50% and summative assessments 50% of the final course mark. The pass mark for each course is 50%. Candidates are assessed continuously through their active participation (this will be monitored), assignments and final assignments. As sub-minima, a candidate is required to obtain an overall mark of 45% in semester work assessments, at least 45% in the final assignment, and at least 33% for participation.

2.5.1 Distinction

The Diploma may be awarded with distinction to candidates who average 75% or above for all courses including the integrated assessment, with not less than 70% for any course, subject to all courses being passed in first attempt.

2.5.2 Minimum requirements for progression and re-registration

A student who fails to meet the following minimum requirements may be refused permission to renew his/her registration for the Diploma (students are required to pass a course with a minimum of 50% before proceeding to the next course):

- In each year of study, the student shall pass, with a minimum of 50%, at least half of the courses registered, with the exception of the final year of study, in which the student will be expected to complete the requirements for the Diploma.
- Students may be allowed to repeat a course they have failed once, at the convener's discretion. Where a candidate fails any course twice, or fails more than one course, a recommendation may be made to the Faculty Examinations Committee to refuse readmission.
- The student must be able to complete all requirements for the Diploma within three years.
- Students shall complete the core courses before progressing to the elective courses.
- The programme convener will consider deviations on a case-by-case basis.

2.6. Programme Rules

2.6.1 Entry

- 2.6.1.1. All participants, including non-degree candidates, or candidates for other UCT degrees, must register and pay fees.
- 2.6.1.2. *People may not "audit" courses, i.e. may not "sit in" for non-examination purposes.*
- 2.6.1.3. Participation by non-degree candidates (i.e., occasional students) or candidates for other UCT degrees must be approved in advance by the programme convenor, via an application to the administrator.
- 2.6.1.4. These participants must register and will be billed.

2.6.2 Attendance/on-line participation

As this course contains a substantial component of distance and self- directed learning, it is imperative that students understand the time and participation requirements that will be expected of them. These include:

- 2.6.2.1. Following a set timetable for course preparation by timeously reading materials provided, conducting self-directed learning activities by going beyond the materials provided, and diligent application to the various exercises, tests and project related work that constitutes the course.
- 2.6.2.2. Daily accessing (approximately 30 minutes per day) and participating in the UCT VULA online learning environment is required for asynchronous (writing and reading FORUM messages) and synchronous (chat room discussions) learning activities. Turnaround times for email should be not greater than 24 hours and on-line participation is monitored by the course convenor, as well as graded.
- 2.6.2.3. Attending the initial two-week session at the Health Sciences Faculty at UCT in Cape Town is compulsory.

2.6.3 Communication

As the primary communication between students, course convenor and section lecturers is through e-mail and Vula it is essential that students ensure the course administrator has the student's current contact details (e-mail and phone) during the full time they are registered as a student. *Skype appointments are also available.*

2.6.4 Assignments and Tests

As the primary communication between students, course convenor and module lecturers is through what's app, e-mail and Vula it is essential that students ensure the programme administrator has the student's current contact details (e-mail and phone) during the full time they are registered as a student. *Skype/Zoom appointments with the administrator and programme convenors are also available.*

2.6.5 Plagiarism

- 2.6.5.1. The University has strict rules against plagiarism (i.e. presenting the work of others, including fellow students, as one's own without acknowledgement). http://www.uct.ac.za/downloads/uct.ac.za/about/policies/plagiarism_students.pdf
- 2.6.5.2. Candidates will be expected to submit signed declarations with all written work.
- 2.6.5.3. Plagiarised work will earn zero credit, and the student will be reported via the University disciplinary process.

2.6.6 Summarised University Language policy

Second language speakers may be required to prove their English competency. The following are required for assessing language competency:

- 2.6.6.1. A recent score (obtained within 3—5 years before application for admission) of at least 570 (paper-based test) or 230 (computer-based test) on the Test of English as a Foreign Language (TOEFL);

2.6.6.2. A recent overall band score of 7.0 (with no individual element of the test scoring below 6.0) on the International English Language Testing System (IELTS); or, noting that this may only be written at certain designated venues within South Africa, a score of at least 65% on the University's Placement Test in English for Educational Purposes (PTEEP).

Read about UCT's language requirements at:

<http://www.students.uct.ac.za/students/applications/admission-requirements/language>

2.6.7 The Writing Centre

The Faculty of Health Sciences Writing Lab at UCT which forms part of the Language Development Group in the Academic Development Programme, Centre for Higher Education Development, offers students free assistance with their academic writing. Students are required to use the services of the Writing Lab for each course final assignment. Students must book an appointment well in advance as slots fill up.

Please visit their website: www.writingcentre.uct.ac.za/about/healthsciences for guidelines on their services, the team and to access any of their free writing resources.

Make an appointment with the Writing Lab staff by accessing the booking schedule: www.uct.mywconline.com by creating an account, logging in using your myUCT email address and clicking on Health Sciences.

2.6.8 Leave

Notice to Leave: Withdrawal of Registration

If a candidate will be discontinuing studies permanently then they must formally cancel registration in writing on the [prescribed form](#). The cancellation form is obtainable from www.uct.ac.za/students/postgraduates/administration. This is of considerable importance because if a candidate leaves without cancelling they will still be liable for fees that are payable. Applications for retrospective cancellation of registration are not accepted: there are specified dates after which a cancellation cannot be accepted or any fees refunded.

Leave of absence:

If it is impossible for a candidate to continue with his/her studies in any given year (for example due to serious illness) but they intend continuing in the following year then they must apply for leave of absence, in writing, to the Dean. Leave of absence can be awarded for a full year, the first six months or the second six months of the year. A maximum of one year of LOA is allowed. The request for [leave of absence](#) must state the period, the reasons and include supporting documentation (e.g. medical certificate) and have the signed support of the supervisor and Head of Department. Applications to grant leave of absence retrospectively will only be considered in exceptional circumstances.

3. GENERAL INFORMATION

3.1. Fees (See: [2021 Fees Handbook](#))

The University's course-based fee structures will enable students to calculate the cost of their academic studies at UCT in 2021 based on 2020 fees (there will be a fee increase of less than 10% so this is just an estimate). Students can use the course codes listed in this brochure to look up the all-inclusive cost of the degree in the 2020 fees booklet. (See: [Fees handbook | UCT Students](#)). The sum of these costs will give the total cost for the set of chosen courses.

SADC students are required to pay a Non-refundable administrative service fee of R4 200 for 2021. See:

(http://www.students.uct.ac.za/sites/default/files/image_tool/images/434/fees_funding/fees/downloads/2021_fees_payment_dates.pdf)

Proforma invoices can also be requested for an estimate of the total cost of the course fees by completing the following:

South African Students:

https://publicaccess.uct.ac.za/psp/public/EMPLOYEE/SA/c/UCT_PUBLIC_MENU.UCT_PROFORMA_DIST.GBL?

International Students:

http://www.students.uct.ac.za/sites/default/files/image_tool/images/434/fees_funding/fees/forms/fee09_proforma_invoice_request.pdf

Non-SADC international students will be billed in South African Rand. An 'out-of-state' or 'international levy' called the International Term Fee, will be charged in addition to the individual fees. Both the International Term Fee plus the individual course based fees must be paid prior to registration. An international student is someone who requires a study permit.

All students from outside South Africa and other SADC countries should refer to fees for international students. Visit <http://www.iapo.uct.ac.za> for more information.

Total Course fees

Please note the fees in the table 1 are for 2020 An increase of approximate 10% for 2021 should be added.

Table 1: Example of DPRM Fees

Student Category	Tuition: Courses Year 1 (3 courses)	Tuition: Courses Year 2 (3 Courses Estimated)	International Admin Fee (non-refundable)	International Term fee	Total
South African	ZAR25 260	ZAR25 260	n/a	n/a	ZAR50 520
SADC region (within Africa)	ZAR25 260	ZAR25 260	ZAR4200	n/a	ZAR54 720

Non-SADC (within Africa)	ZAR25 260	ZAR25 260	ZAR4200	ZAR47 000	ZAR101 720
International (rest of the world)	ZAR25 260	ZAR25 260	ZAR4200	ZAR66 000	ZAR120 720

Additional costs to budget for:

- Two-week on site teaching at UCT:
 - Flights and Transport to and from Airport
 - Accommodation & Daily Subsistence

3.2 Financial assistance

Every year students are disappointed because they are accepted into the programme and then have to cancel their place as they have not applied for any funding. **It is recommended that students start looking for funding immediately after applying and do not wait until you receive an acceptance letter to investigate your opportunities.**

Some suggestions for bursaries are:

- a. Information regarding scholarships and bursaries is available on request from the Postgraduate Funding Office, University of Cape Town.
Tel: +27-21-650 3629
Email: pgfunding@uct.ac.za
Website: <http://www.students.uct.ac.za/students/fees-funding/postgraduate-degree-funding/noticeboard>
- b. Faculty of Health Sciences
<http://www.health.uct.ac.za/fhs/research-noticeboard>
- c. Inquire what bursary options your place of employment offers
- d. Contact the British Council and embassies in your country to inquire about educational bursary options
- e. Investigate personal loan options from your bank.

4. PROGRAMME CONTENT

4.1 YEAR 1: COURSES

Students are required to complete all Courses listed below:

Curriculum Outline

<u>Course Code</u>	<u>Course</u>
PPH4033F	Pesticide Risk Management
PPH4041F/S	International Chemicals Management Agreement
PPH4034F/S	Health and Safety Management

4.1.1 Course 1: PESTICIDE RISK MANAGEMENT (PPH4033F/S)

Course outline: This course introduces students to the International Code of Conduct on Pesticide Management (the Code), a life-cycle analysis approach, pesticide policy, a legal framework for pesticides, and how to regulate vulnerable populations and complex use environments. The central management philosophy taught in this course is to regulate, control and monitor pesticides through a holistic life-cycle approach (from the beginning until the end of a product's life). Students will be introduced to the basic principles of risk, risk assessment, highly hazardous pesticides, ethical pesticide policies, compliance with international commitments and standards, registration issues, pesticide governance, implementation of pesticide legislation, the incorporation of vulnerability into the registration process, and how to design a lifecycle management strategy for a particular pesticide. At the end of the course, students will have developed an approach to critically analyze pesticide policies and the registration process to promote effective regulatory implementation in varying pesticide use contexts (e.g., different climates, populations, legal structure).

4.1.2.Course 2: INTERNATIONAL CHEMICALS MANAGEMENT AGREEMENT (PPH4041F/S)

Course outline: This course aims to provide students with an in-depth knowledge of the various international chemical conventions and agreements, and their relevance to managing the risks associated with pesticides. These include the Code, the Stockholm Convention, the Rotterdam Convention, Basel Convention, Minamata Convention, the Montreal protocol, and the Strategic Approach to International Chemicals Management (SAICM). By the end of the course, students are able to describe the detailed requirements of different conventions at each stage in the pesticide life-cycle and relate them to national legislation to regulate pesticides, understand how chemical conventions can be implemented at local level in a systematic and synergistic way, critically appraise their own national legislation and assess its compliance with international convention requirements, and identify and use existing information resources about conventions and international initiatives.

4.1.3.Course 3: HEALTH AND SAFETY MANAGEMENT (PPH4034F/S)

Course outline: The course provides students with the technical knowledge base and skills to regulate and manage the acute and chronic health effects associated with exposure to pesticides. To promote this understanding, students receive training in the basic chemistry of pesticides and how to interpret the WHO and Globally Harmonized System of the classification and labelling of chemicals (GHS) hazard classification systems. An introduction to pesticide toxicology, pesticide epidemiology, and the principles of risk and hazard assessment provides the technical skills and knowledge base to evaluate the quantitative human risk assessment data in pesticide dossiers. The health consequences of pesticide exposure are covered through an understanding of exposure pathways and multiple exposures, as well as endocrine disruption, neurotoxicity, genotoxicity, immunotoxicity (vital for countries with high immune-compromised populations), and reproductive effects. The course also covers ways to interpret strength-of-association in epidemiological studies and to critically appraise pesticide health literature. Students learn how to assess human risk assessment data submitted as a part of a pesticide dossier, and the application of the Code and lifecycle approach to health risk assessment.

YEAR 2: COURSES

Students are required to complete three Courses listed below:

PPH4035F/S	Management of environmental risk including eco-toxicology, risk assessment and basic environmental chemistry
PPH4042F/S	Public Health & Pesticides
PPH4040S	Containers & Contaminated Site Management

Course details:

4.1.4. Course 4: MANAGEMENT OF ENVIRONMENTAL RISK INCLUDING ECOTOXICOLOGY, RISK ASSESSMENT AND BASIC ENVIRONMENTAL CHEMISTRY (PPH4035F/S)

Course outline: This course provides students with an understanding of the principles of environmental risk assessment as used in the pesticide registration process (e.g. predicting environmental concentrations and toxic effects, quantifying risk, tiered assessments); differences between (preregistration) pesticide risk assessment and (post-registration) pesticide impact studies, and the types of impact a pesticide may have (e.g. effects on organisms, environmental contamination, biodiversity, ecosystem services, agronomic productivity, disease vector control); environmental protection goals (determining what needs to be protected and to what extent); linkages with environmental legislation and policy; harmonisation and environmental governance; approaches to the assessment of (potential) environmental impact of a pesticide after its introduction for use in a country (e.g. environmental monitoring, incident reporting); how basic chemistry of pesticides influences their properties, environmental fate and persistence; the assessment of pesticide contamination – basic methodology; sampling for pesticide residues (e.g. methods for organisms, soils, water); the influence of temperature and other environmental parameters on the environmental fate and persistence of pesticides; the principles of ecotoxicology with reference to pesticide use; impacts at organism, population and community levels of organisation and how ecotoxicology is used in risk assessments and for the formulation of pesticide policy and registration; the use of risk assessment data in the decision-making process, how a risk management component is added, and measures to mitigate and reduce risk; the principles and varied methodologies for assessing pesticide impacts in the field; how pesticides affect non-target organisms and how this can lead to pest resurgence; and how to develop a pesticide resistance management programme.

4.1.5. Course 5: PUBLIC HEALTH & PESTICIDES (PPH4042S)

Course outline: This course provides the student with the skills for managing public health pest problems and for implementing effective control strategies (e.g. integrated vector management [IVM]) through the life-cycle approach, alternatives, and cost-effective approaches. Students examine the World Health Organisation (WHO) models for evaluating and testing pesticides to be used in public health, along with the WHO's strategies, policies and guidelines for using pesticides in public health. On completion of the course, students have knowledge of a holistic approach to public health vectors and disease management; basic vector ecology and biology for major diseases; WHO global framework for IVM; IVM for malaria; IVM for nuisance pest control; and how to integrate public health pesticides legislation, develop a reporting system, and assure efficacy and compliance with international conventions.

4.1.6. Course 6: CONTAINERS & CONTAMINATED SITE MANAGEMENT (PPH4040S)

Course outline: The course introduces the student to systems for the scoping of project components related to contaminated site assessment and management of pesticide containers (legacy stockpiles and new wastes). The course then progresses to the development of operational plans for the implementation of container and contaminated site assessments, leading to development of site-specific environmental management plans and remediation strategies. With regard to container management, the course makes the distinction between the development and implementation of strategies for addressing existing stockpiles of contaminated materials and the need to develop sustainable container management programmes for the future. The student is required to demonstrate competence in the development of operational plans for a series of case-study contaminated sites, and to develop container management strategies based on a series of hypothetical situations. The student is also required to look to maximise local treatment of all materials based on assessments of national capacities and the application of international best practice/standards for treatment under local conditions

5. KEY EXIT COMPETENCIES

After completion of the programme, a student will:

- be able to make decisions and give advice as a pesticide risk manager in relation to the full life-cycle of a pesticide and alternative pest control measures.
- understand and apply legal concepts and a legal framework to managing pesticides and implementing risk reduction strategies
- understand and apply policy relevant concepts, including regulating for vulnerable populations.
- understand important pesticide related toxicology and ecotoxicology concepts and principles.
- be able to explain the five key international commitments and standards relevant for pesticide risk management/reduction
- be able to describe various risk reduction management strategies and alternatives
- be able to develop risk reduction management plans that are SMART (specific, measurable, attainable, realistic and timely) and appropriate for country contexts
- be able to produce high quality policy briefs for various stakeholders.

APPLICATION CHECK LIST

Step 1	Completed UCT on-line application: Click on this LINK
Step 2	Send student number to the programme administrator (send to dprm@uct.ac.za)
Step 3	Completed DPRM information form (send to dprm@uct.ac.za)
Step 4	Completed all required tests on Vula
Step 5	Submitted all certified copies of transcripts to UCT
Step 6	Submitted key explaining transcripts' grades/marks
Step 7	Submitted proof of English proficiency (e.g., TOEFL results), if applicable
Step 8	Submitted certified copy of ID or passport
Step 9	Submit all applications/ documents by 30 September 2021