



**#083** 

Civil and Environmental Engineering: Erosion Control and Watershed Management

**Postgraduate Short Course** 

Leading To:

# **DIPLOMA - POSTGRADUATE IN**

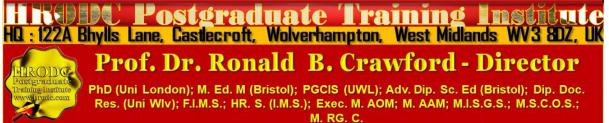
Civil and Environmental Engineering: Erosion Control and Watershed Management, Double Credit, 60 Credit-Hours

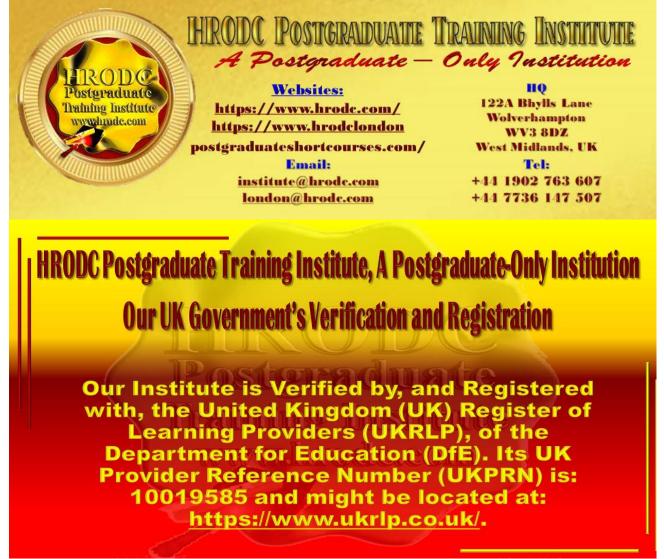
Accumulating to A

Postgraduate Certificate, With 120 Additional Credit-Hours, or A

Postgraduate Diploma, With 300 Additional Credit-Hours

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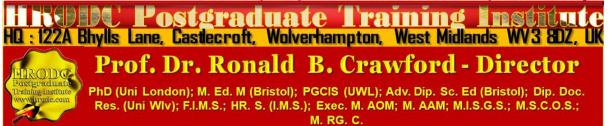


#### **Course Coordinator:**

**Prof. Dr. R. B. Crawford is the Director of HRODC Postgraduate Training Institute, A Postgraduate-Only Institution. He has the following Qualifications and Affiliations:** 

- Doctor of Philosophy {(PhD) {University College London (UCL) University of London)};
- MEd Management (University of Bath);
- Postgraduate (Advanced) Diploma Science Teacher Ed. (University of Bristol);
- Postgraduate Certificate in Information Systems (University of West London, formerly Thames Valley University);
- Diploma in Doctoral Research Supervision, (University of Wolverhampton);

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- Teaching Certificate;
- Fellow of the Institute of Management Specialists;
- Human Resources Specialist, of the Institute of Management Specialists;
- Member of the Asian Academy of Management (MAAM);
- Member of the International Society of Gesture Studies (MISGS);
- Member of the Standing Council for Organisational Symbolism (MSCOS);
- Member of ResearchGate;
- Executive Member of Academy of Management (AOM). There, his contribution incorporates the judging of competitions, review of journal articles, and guiding the development of conference papers. He also contributes to the Disciplines of:
  - Human Resources;
  - Organization and Management Theory;
  - Organization Development and Change;
  - Research Methods;
  - Conflict Management;
  - Organizational Behavior;
  - Management Consulting;
  - Gender & Diversity in Organizations; and
  - Critical Management Studies.

#### Professor Dr. Crawford has been an Academic in the following UK Universities:

- University of London (Royal Holloway), as Research Tutor;
- University of Greenwich (Business School), as Senior Lecturer (Associate Professor), in Organisational Behaviour and Human Resource Management;
- University of Wolverhampton, (Wolverhampton Business School), as Senior Lecturer (Associate Professor), in Organisational Behaviour and Human Resource Management;
- London Southbank University (Business School), as Lecturer and Unit Leader.

## His responsibilities in these roles included:

- Doctoral Research Supervisor;
- Admissions Tutor;
- Postgraduate and Undergraduate Dissertation Supervisor;
- Programme Leader;
- Personal Tutor

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# For Whom This Course is Designed This Course is Designed For:

Classroom-Based Duration and Cost:			
Classroom-Based Duration:	10 Days		
Classroom-Based Cost:	£10,000.00 Per Delegate		
Online (Video-Enhanced) Duration and Cost			
Online Duration:	20 Days – 3 Hours Per Day		
Online Cost:	£6,700.00 Per Delegate		

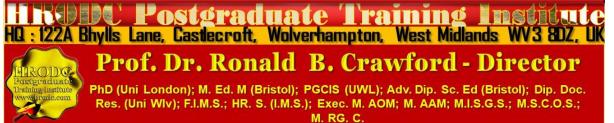
# **Classroom-Based Course and Programme Cost includes:**

- > Free Continuous snacks throughout the Event Days;
- Free Hot Lunch on Event Days;
- Free City Tour;
- Free Stationery;
- > Free On-site Internet Access;
- > Postgraduate Diploma/ Diploma Postgraduate –or
- > Certificate of Attendance and Participation if unsuccessful on resit.

# Students and Delegates will be given a Selection of our Complimentary Products, which include:

- > Our Branded Leather Conference Folder;
- > Our Branded Leather Conference Ring Binder/ Writing Pad;
- > Our Branded Key Ring/ Chain;
- > Our Branded Leather Conference (Computer Phone) Bag Black or Brown;
- > Our Branded 8-16 GB USB Flash Memory Drive, with Course Material;
- > Our Branded Metal Pen;
- > Our Branded Polo Shirt.;
- > Our Branded Carrier Bag.





#### Daily Schedule: 9:30 to 4:30 pm.

#### **Delivery Locations:**

- 1. Central London, UK;
- **2.** Dubai, UAE;
- **3.** Kuala Lumpur, Malaysia;
- 4. Amsterdam, The Netherlands;
- **5.** Brussels, Belgium;
- 6. Paris, France; and
- 7. Durban, South Africa;
- 8. Other International Locations, on request.

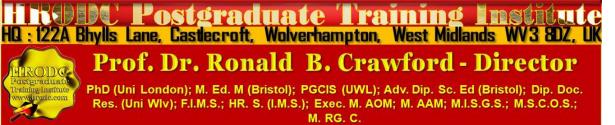
Civil and Environmental Engineering: Erosion Control and Watershed Management Course

Leading to Diploma – Postgraduate – in Civil and Environmental Engineering: Erosion Control and Watershed Management and 60 Credit-Hours, Accumulating to a Postgraduate Certificate, with 120 Additional Credit-Hours, or a Postgraduate Diploma, with 300 Additional Credit-Hours

# **Course Contents, Concepts and Issues**

## Part 1: Conceptualising and Contextualising Watershed Structure, Process and Management (1)

- Importance of Natural Ecosystems;
- Integral Component of the Watershed;
- Watershed Ecology:
  - The Landscape and the Interacting Elements:
    - Climate and its Effect;
    - Geomorphological Factors;
    - Hydrology and its Adverse Effect.
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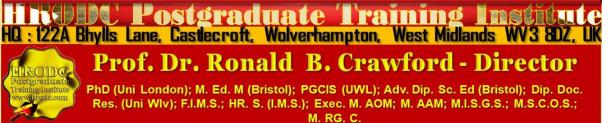


- The Biological Setting;
- Watershed as a 'Natural System';
- Watershed Structure;
- Watershed Function.
- Salient Aspects of Watershed Management;
- Freshwater Ecosystems: Their Sustainability:
  - Freshwater Ecosystem Integrity Requirements;
  - Tools Available for Restoration of Freshwater Ecosystems;
  - Balancing Human Use and Needs of Freshwater Ecosystems.
  - Watershed Framework Governance: From National to Local Perspective.

# Part 2: Conceptualising and Contextualising Watershed Structure, Process and Management (2)

- Protection of Instream Flows.
- Stream Corridor Structure:
  - A Lateral Assessment Across the Stream Corridor;
  - A Longitudinal Assessment Along the Stream Corridor.
- Indicators of Watershed Health;
- > Natural and Manmade Agents of Watershed Change;
- Importance of Birds to Watershed Health;
- Protecting Bird Habitat in Watershed;
- Wetland Functions and Values:
  - Improving Water Quality and Hydrology;
  - Flood Protection;
  - Shoreline Erosion;
  - Economic Benefits of Wetland Resources;
  - Importance of Researchand Public Education.

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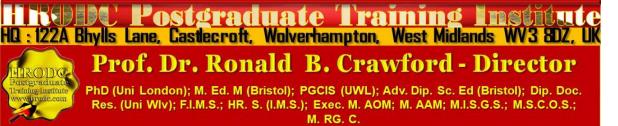
# Part 3: Changes in Watershed: A Causal Analysis

- Natural Watershed Change Agents;
- Understanding the Natural Change Processes;
- Induced Watershed Changes;
- Long-Term Effect of Watershed Changes:
- Climate Change as a Process;
- Climate Change Indicators;
- Infrastructural Implications of Climate Change;
- Climate Change Resistance Mechanisms;
- Watershed Degradation;
- Coastal and Oceanographic implications of Climate Change;
- Regional Impacts of Climate Change;
- Human Habitation Vulnerable to Displacement from Climate Change;
- Nonpoint Pollution of Surface Waters;
- Phosphorus as a Pollutant;
- Nitrogen as a Pollutant;
- NonpointPollution Problem Resolution.

# Part 4: Watershed Management: Analysis and Planning

#### Watershed Planning

- Elements of Watershed Planning;
- > Effective Watershed Planning for Sustainability:
  - Coalition Development;
  - Watershed Conceptualisation and Formulation;
  - Objective Development and Milestone Determination;
  - Programme Design;
  - Programme Implementation;
  - Programme Monitoring;
  - Continuous Evaluation: Towards Continuous Watershed Improvement.
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#### **Elements of Watershed Monitoring**

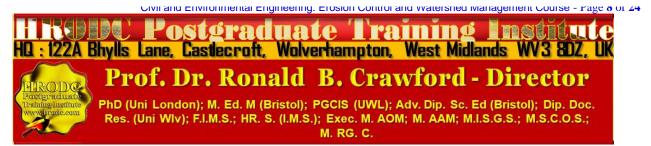
- Formulating Water Quality Monitoring Objectives;
- Developing a Monitoring Strategy;
- Water Quality Sampling Techniques;
- Sampling Program Implementation;
- Recording Sampling Data;
- Data Analysis and Interpretation;
- > Systematizing Report Generation and Recommendations.

#### Watershed Modelling

- Ways to Identify Issues for Watershed Modelling;
- Watershed Modelling Strategy;
- > Model Calibration, Validation, and Verification.

# Part 5 - Watershed Risk Management: Identification, Planning, Response, Documentation and Communication Effectiveness

- Defining Risk Management;
- Continuous Risk Management Example;
- > Non-Continuous Risk Management Example;
- Evaluating Likely Risks and Consequences;
- Assessing the Options for Accommodating Risks;
- Prioritising Risk Management Efforts;
- Developing Risk Management Plans;
- Authorising the Implementation of Risk Management Plans;
- The Context of Risk Management in Organisations;
- The Link between Risk Management and Governance Arrangements;
- Risk Management Standards;
- > Developing Criteria for Determining Acceptable Levels or Residual Risk.
- > Distinguishing Between a Risk and an Issue, in Watershed Management Setting;
- Importance of a Watershed Issue Register;



- Developing and Maintaining the Watershed Issue Register;
- Managing Watershed Risk and Issue Log;
- Risk and Issue Management;
- Risk Management Plan;
- Risk Management Improvement Plan;
- Developing a Risk Response Strategy;
- Formulating a Risk Response Plan.
- Implementing a Risk Response Plan;
- Effective Risk Communication
- Crisis and Emergency Risk Communication;
- Risk Communication Plan;
- Inter-Functional Planning, Co-ordination and Communication for an Effective Risk Management System;
- Compiling and Writing Risk Reports.

#### Part 6 – Management Practices in Watersheds

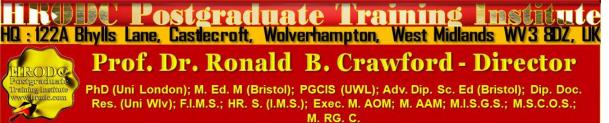
#### **8 Tools of Watershed Protection in Developing Areas**

- Land Use Planning;
- Land Conservation Issues;
- Managing Aquatic Buffers;
- Improved Site Design;
- Effective Erosion and Sediment Control;
- Storm-water Management Best Practice;
- Addressing Non-Storm Water Discharges;
- Establishing Watershed Stewardship Programs.

#### Agriculture Management Practices for Water Quality Protection

- Key Issues in Agriculture Management:
  - Conservation Tillage;
  - Crop Nutrient Management;
  - Pest Management;

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- Conservation Buffers.
- Supplemental Agricultural Practices;
  - Irrigation Water Management;
  - Grazing Management;
  - Animal Feeding Operations Management;
  - Erosion and Sediment Control.

#### **Forestry Best Management Practices in Watersheds**

- > The Clean Water Act and Best Management Practices;
  - Pre-harvest Planning BMPs;
  - Streamside Management Zones;
  - Forest Wetland Management;
  - Road Construction and Maintenance;
  - Timber Harvesting;
  - Revegetation and Forest Regeneration;
  - Fire Management;
  - Forest Chemical Management.

#### Part 7: Watershed Management Protocol

- Watershed Policy Development;
- Watershed Policy Dissemination;
- Watershed Policy Implementation;
- Watershed Policy Enforcement;
- Effective State-wide Watershed Outreach;
- Creating Public Partnerships;
- Establishing Public-Private Partnerships;
- Establishing Corporate Social Investment;
- Watershed Publicity Information;
- Utilising the Media as a Publicity Machine;
- Addressing Media Concern.





# Part 8: The Erosion Problem

- Erosion and Sedimentation;
- Types of Erosion:
  - Water or Splash Erosion;
  - Sheet Erosion;
  - Rill Erosion;
  - Scalding;
  - Gully Erosion;
  - Tunnel Erosion;
  - Stream Bank Erosion;
  - Erosion on Floodplains;
  - Mass Movement;
  - Wind Erosion.
- Causes of Erosion;
- Impacts of Erosion:
  - Agriculture;
  - Waterways;
  - Infrastructure.
- > Main Principles to Control Erosion:
  - Land Capability;
  - Surface Cover;
  - Control Runoff.
- The Ten Commandments of Erosion and Sediment Control;
- Types of Land Disturbing Activities Undertaken;
- Economic Considerations.

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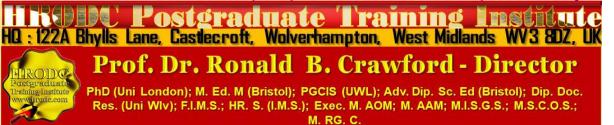
# Part 9: Soil Erosion on Watershed Landscapes: Processes and Control

- Soil Resources Losses;
- Surface Soil Erosion;
- Soil Erosion Processes;
- Measurement of Surface Erosion;
- Prediction of Soil Loss;
- Prevention of Surface Erosion;
- Control of Surface Erosion:
  - Vegetative Measures;
  - Mechanical Methods;
  - Minimizing Impacts of Roads.
- Cumulative Effects on Surface Erosion.

# Part 10: Gully Prevention and Control

- Classical Gullies and Ephemeral Gullies;
- Process of Soil Erosion and Gully Formation;
- Factors Affecting Gully Formation;
  - Man-made Factors;
  - Physical Factors.
- > Occurrence, Development, and Classification of Gullies;
  - Occurrence of Gullies;
  - Development of Gullies;
  - Gully Classification;
  - Effects of Gully Formation.
- Assessment and Mapping of Gullies;
- Principles of Gully Prevention and Control;
- Gully Erosion Control:
  - Establishment of Vegetation;

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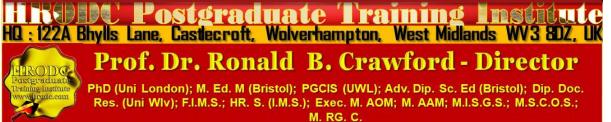


- Gully Plugs;
- Debris Dams;
- Rock Check Dams;
- Grade Control Structure;
- Rock Treatments;
- Water Diversion;
- Waterways;
- Fertilization;
- Land Reshaping.
- Gully Treatment Measures:
  - Gully Reshaping and Filling;
  - Brushwood Check-Dams;
  - Loose Stone Check-Dam;
  - Gabion Check-Dam;
  - Arc-weir Check-Dam;
  - Locally Available (organic) Gabion Boxes;
  - Sandbag Check-Dam;
  - Use of Vegetation in Gully Control.
- Parts of a Gully;
- Design Considerations Common for All Check-Dam Types;
- Reasons for Failure in Gully Rehabilitation;
- > Maintenance and Utilization of a Rehabilitated Gully.

# Part 11: Soil Mass Movement, Sediment Supply and Transport on Watershed Landscapes

- Soil Mass Movement Processes;
- Factors Affecting Hillslope Stability;
- Evaluating Hillslope Stability;
- Reducing Soil Mass Movement;
- Cumulative Effects on Soil Mass Movement;
- Classification of Sediment;

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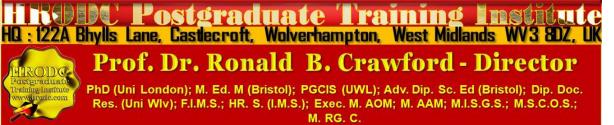


- Sediment Supply;
- Energy Relationships in Streams;
- Sediment Transport in a Stream;
- Channel Degradation and Aggradation;
- Dynamic Equilibrium;
- Reducing Sediment Depositions in Stream Channels;
- Sediment Yield;
- Measurement of Sediment Yield;
- Cumulative Effects on Sediment Yield;

# Part 12: Best Management Practices for Erosion Control and Economic Considerations for Watershed Management Practices

- Erosion and Sediment Control Investigations;
- Five Major Elements of Best Management Practice;
- Erosion Control BMPs;
  - Seeding;
  - Mulching;
  - Mulch Trackifier;
  - Soil Binders;
  - Erosion Control Blankets;
  - Turf Reinforcement Mats;
  - Embankment Protector;
  - Berm/Diversion;
  - Check Dams;
  - Outlet Protection;
  - Temporary Drainage Swells;
  - Grading Techniques.
- Sediment Control BMPs:
  - Erosion Bale;
  - Erosion Log;
  - Silt Fence;

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- Storm Drain Inlet Protection;
- Sediment Trap;
- Sediment Basin;
- Dewatering Structure;
- Stabilized Construction Entrance;
- Brush Barrier;
- Gravel Barrier;
- Silt Barrier.
- Economic Appraisals of Watershed Management Practices: (08)
  - Comparing Benefits and Costs;
  - Non-Monetary Benefits and Costs.

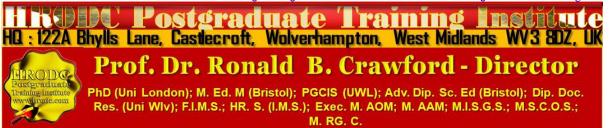
Postgraduate Diploma, Postgraduate Certificate, and Diploma – Postgraduate - Short Course Regulation

# Postgraduate Certificate, Postgraduate Diploma, and Diploma – Postgraduate: Their Distinction, Credit Value and Award Title

Postgraduate Short Courses of a minimum of five days' duration, are referred to as Diploma – Postgraduate. This means that they are postgraduate credits, towards a Postgraduate Certificate and Postgraduate Diploma. Postgraduate Certificate and Postgraduate Diploma represent Programmes of Study, leading to Awards bearing their title prefixes. While we, refer to our short studies, of 5 days to five weeks, as 'Courses', those with duration of 6 weeks and more are labelled 'Programmes'. Nevertheless, in line with popular usage, we often refer to all study durations as 'Courses'. Another mark of distinction, in this regard, is that participants in a short course are referred to as 'Delegates', as opposed to the term 'Students', which is confined to those studying a Postgraduate Programme.

Courses are of varying Credit-Values; some being Single-Credit, Double-Credit, Triple-Credit, Quad-Credit, 5-Credit, etc. These short courses accumulate to Postgraduate Certificate, with

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Civil and Environmental Engineering: Erosion Control and Watershed Management Course, Leading to Diploma Postgraduate - in Civil and Environmental Engineering: Erosion Control and Watershed Management (Double Credit), and 60 Credit-Hours, Accumulating to A Postgraduate Certificate, with 120 Additional Credit-Hours, a Postgraduate Diploma, with -300 Additional Credit-Hours a total of 180 Credit-Hours (= 6 X 5-Day Courses or 3 X 10-Day Courses), or Postgraduate

Diploma, with a total of 360 Credit-Hours (= 12 X 5-Day Courses or 6 X 10-Day Courses).

Delegates studying courses of 5-7 days' duration, equivalent to 30-42 Credit-Hours (Direct Lecturer Contact), will, on successful assessment, receive the Diploma – Postgraduate Award. This represents a single credit at Postgraduate Level. While 6-day and 7-day courses also lead to a Diploma – Postgraduate, they accumulate 36 and 42 Credit Hours, respectively.

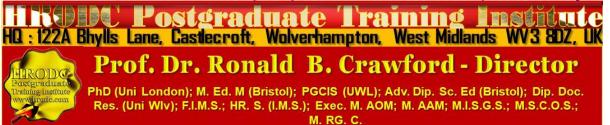
# Postgraduate Certificate, Postgraduate Diploma, and Diploma – Postgraduate Assessment Requirement

Because of the intensive nature of our courses and programmes, assessment will largely be in-course, adopting differing formats. These assessment formats include, but not limited to, in-class tests, assignments, end of course examinations. Based on these assessments, successful candidates will receive the Diploma – Postgraduate, Postgraduate Certificate, or Postgraduate Diploma, as appropriate.

In the case of Diploma – Postgraduate, a minimum of 70% overall pass is expected. In order to receive the Awards of Postgraduate Certificate and Postgraduate Diploma, candidates must have accumulated at least the required minimum 'Credit-Hours', with a pass (of 70% and above) in at least 70% of the courses taken.

Delegates and students who fail to achieve the requirement for Postgraduate Certificate, Postgraduate Diploma, or Diploma - Postgraduate - will be given support for 2 re-submissions for each course. Those delegates who fail to achieve the assessment requirement for the Postgraduate Diploma or Diploma - Postgraduate - on 2 resubmissions, or those who elect not to receive them, will be awarded the Certificate of Attendance and Participation.

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# Diploma – Postgraduate, Postgraduate Certificate, and Postgraduate Diploma Application Requirements

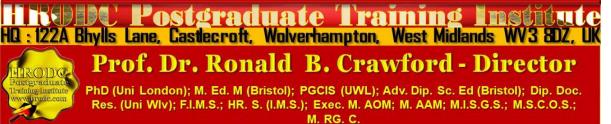
Applicants for Diploma – Postgraduate – Postgraduate Certificate, and Postgraduate Diploma are required to submit the following documents:

- Completed Postgraduate Application Form, including a passport sized picture affixed to the form;
- A copy of Issue and Photo (bio data) page of the applicant's current valid passport or copy of his or her Photo-embedded National Identity Card;
- > Copies of credentials mentioned in the application form.

# Admission and Enrolment Procedure

- On receipt of all the above documents we will assess applicants' suitability for the Course or Programme for which they have applied;
- If they are accepted on their chosen Course or Programme, they will be notified accordingly and sent Admission Letters and Invoices;
- One week after the receipt of an applicant's payment or official payment notification, the relevant Course or Programme Tutor will contact him or her, by e-mail or telephone, welcoming him or her to HRODC Postgraduate Training Institute;
- Those intending to study in a foreign country, and require a Visa, will be sent the necessary immigration documentation, to support their application;
- Applicants will be notified of the dates, location and venue of enrolment and orientation, where appropriate.

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# Modes of Study and Duration of Postgraduate Certificate and Postgraduate Diploma Programmes

There are two delivery formats for Postgraduate Certificate and Postgraduate Diploma Programmes, as follows:

- Intensive Full-time (Classroom-Based) Mode, lasting 3 months for Postgraduate Diploma, and 6 weeks for Postgraduate Certificate. These durations are based on six hours' lecturer-contact per day, five days (30 hours) per week, for Postgraduate Diploma;
- Video-Enhanced On-Line Mode. This interactive online mode lasts twenty (20) weeks, for Postgraduate Diploma, and ten (10) weeks for Postgraduate Certificate.
   Our calculation is based on three hours per day, six days per week.

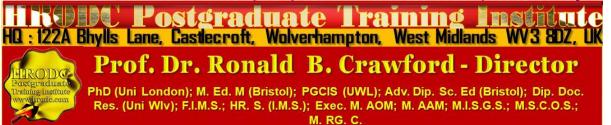
Whichever study mode is selected, the aggregate of 360 Credit Hours must be achieved.

# Introducing Our Video-Enhanced Online Study Mode

In a move away from the traditional online courses and embracing recent developments in technology-mediated distance education, HRODC Postgraduate Training Institute has introduced a Video-Enhanced Online delivery. This Online mode of delivery is revolutionary and, at the time of writing, unique to HRODC Postgraduate Training Institute.

You are taught as individuals, on a one-to-one or one-to-small-group basis. You see the tutor face to-face, for the duration of your course. You will interact with the tutor, ask and address questions; sit examinations in the presence of the tutor. It is as real as any face-to-face lecture and seminar can be. Choose from a wide range of Diploma – Postgraduate Courses and an increasing number of Specialist Postgraduate Certificate and Postgraduate Diploma Programmes. You might also accumulate Postgraduate Short Courses, via this mode of study, over a 6-year period, towards a Postgraduate Certificate or Postgraduate Diploma.

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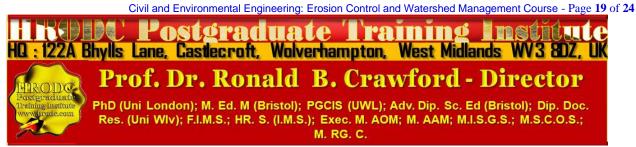


# Key Features of Our Online Study: Video-Enhanced Online Mode

- The tutor meets the group and presents the course, via Video, in a similar way to its classroom-based counterpart;
- > All participants are able to see, and interact with, each other, and with the tutor;
- They watch and discuss the various video cases and demonstrations that form an integral part of our delivery methodology;
- > Their assessment is structured in the same way as it is done in a classroom setting;
- The Video-Enhanced Online mode of training usually starts on the 1<sup>st</sup> of each month, with the cut-off date being the 20<sup>th</sup> of each month, for inclusion the following month;
- Its duration is twice as long as its classroom-based counterpart. For example, a 5-day (30 Credit Hours) classroom-based course will last 10 days, in Video-Enhanced Online mode. This calculation is based on 3 hours tuition per day, adhering to the Institute's required 30 Credit-Hours;
- The cost of the Video-Enhanced Online mode is 67% of similar classroom-based courses;
- For example, a 5-day classroom-based course, which costs Five Thousand Pounds, is only Three Thousand Three Hundred and Fifty Pounds (£3,350.00) in Video-Enhanced Online Mode.

# 10-Week Video-Enhanced Online Postgraduate Certificate and 20-Week Video-Enhanced Online Postgraduate Diploma

You might study an Online Postgraduate Certificate or Online Postgraduate Diploma, in 10 and 20 weeks, respectively, in the comfort of your office or homes, through HRODC Postgraduate Training Institute's Video-Enhanced Online Delivery. We will deliver the 180 Credit-Hours and 360 Credit-Hours, in line with our regulation, through 'Direct-Lecturer-Contact', within the stipulated timeframe. We aim to fit the tuition around your work, family commitment and leisure, thereby enhancing your maintenance of an effective 'work-study-lifestyle balance', at times convenient to you and your appointed tutor.



## **Cumulative Postgraduate Certificate and Postgraduate Diploma Courses**

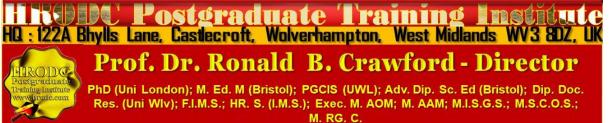
All short courses can accumulate to the required number of Credit-Hours, for the Postgraduate Certificate and Postgraduate Diploma, over a six-year period from first registration and applies to both general and specialist groupings. In this regard, it is important to note that short courses vary in length, the minimum being 5 days (Diploma – Postgraduate) – equivalent to 30 Credit Hours, representing one credit, as is tabulated below.

On this basis, the definitive calculation on the Award requirement is based on the number of hours studied (aggregate credit-value), rather than merely the number of credits achieved. This approach is particularly useful when a student or delegate studies a mixture of courses of different credit-values.

For those delegates choosing the accumulative route, it is advisable that at least one or two credits be attempted each year. This will ensure that the required 180 Credit-Hours and 360 Credit-Hours, for the Postgraduate Certificate and Postgraduate Diploma, respectively, are achieved, within the designated period. These Credit-Values, awards and their accumulation are exemplified below.

Examples of Postgraduate Course Credits: Their Value, Award Prefix & Suffix – Based on 5-Day Multiples			
Credit Value	Credit Hours	Award Title Prefix (& Suffix)	
Single-Credit	30-54	Diploma - Postgraduate	
Double-Credit	60-84	Diploma – Postgraduate (Double-Credit)	
Triple-Credit	90-114	Diploma – Postgraduate (Triple-Credit)	
Quad-Credit	120-144	Diploma – Postgraduate (Quad-Credit)	
5-Credit	150-174	Diploma – Postgraduate (5-Credit)	
6-Credit	180-204	Postgraduate Certificate	
7-Credit	210-234	Postgraduate Certificate (+ 1 Credit)	

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Examples of Postgraduate Course Credits:				
Their Value, Award Prefix & Suffix – Based on 5-Day Multiples				
Credit Value	Credit	Award Title Prefix (& Suffix)		
Hours				
8-Credit	240-264	Postgraduate Certificate (+2 Credits)		
9-Credit	270-294	Postgraduate Certificate (+3 Credits)		
10-Credit	300-324	Postgraduate Certificate (+ 4 Credits)		
11-Credit	330-354	Postgraduate Certificate (+5 Credits)		
12-Credit	360	Postgraduate Diploma		
360 Credit-Hours = Postgraduate Diploma				
12 X 5-Day Courses = 360 Credit-Hours = Postgraduate Diploma				
10 X 6-Day Courses = 360 Credit-Hours = Postgraduate Diploma				

# Exemplification of Accumulated Postgraduate Certificate and Postgraduate Diploma Award Titles

All Specialist Postgraduate Certificate and Postgraduate Diploma Programmes have their predetermined Award Titles. Where delegates do not follow a Specialism, for accumulation to a Postgraduate Diploma, they will normally be Awarded a General Award, without any Specialist Award Title. However, a Specialist Award will be given, where a delegate studies at least seventy percent (70%) of his or her courses in a specialist grouping. These are exemplified below:

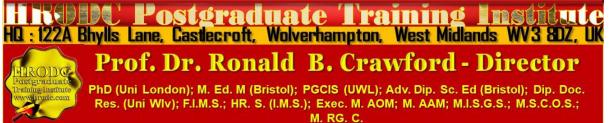
- 1. Postgraduate Diploma in Accounting and Finance;
- 2. Postgraduate Certificate in Accounting and Finance;
- 3. Postgraduate Certificate in Aviation Management;
- 4. Postgraduate Diploma in Aviation Management;
- 5. Postgraduate Certificate in Industrial Health and Safety Management, Incorporating Oil and Gas Safety;
- 6. Postgraduate Diploma in Industrial Health and Safety Management, Incorporating Oil and Gas Safety;

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- 7. Postgraduate Certificate in Business Communication;
- 8. Postgraduate Diploma in Business Communication;
- 9. Postgraduate Certificate in Corporate Governance;
- 10. Postgraduate Diploma in Corporate Governance;
- 11. Postgraduate Certificate in Costing and Budgeting;
- 12. Postgraduate Diploma in Costing and Budgeting;
- 13. Postgraduate Certificate in Client or Customer Relations;
- 14. Postgraduate Diploma in Client or Customer Relations;
- 15. Postgraduate Certificate in Engineering and Technical Skills;
- 16. Postgraduate Diploma in Engineering and Technical Skills;
- 17. Postgraduate Certificate in Events Management;
- 18. Postgraduate Diploma in Events Management;
- 19. Postgraduate Certificate in Health and Safety Management;
- 20. Postgraduate Diploma in Health and Safety Management;
- **21.**Postgraduate Certificate in Health Care Management;
- 22. Postgraduate Diploma in Health Care Management;
- 23. Postgraduate Certificate in Human Resource Development;
- 24. Postgraduate Diploma in Human Resource Development;
- 25. Postgraduate Certificate in Human Resource Management;
- 26. Postgraduate Diploma in Human Resource Management;
- 27.Postgraduate Certificate in Information and Communications Technology (ICT);
- 28. Postgraduate Diploma in Information and Communications Technology (ICT);
- 29. Postgraduate Certificate in Leadership Skills;
- **30.** Postgraduate Diploma in Leadership Skills;
- 31. Postgraduate Certificate in Law International and National;
- 32. Postgraduate Diploma in Law International and National;
- 33. Postgraduate Certificate in Logistics and Supply Chain Management;
- 34. Postgraduate Diploma in Logistics and Supply Chain Management;

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35. Postgraduate Certificate in Management Skills;

36. Postgraduate Diploma in Management Skills;

37. Postgraduate Certificate in Maritime Studies;

38. Postgraduate Diploma in Maritime Studies;

**39.** Postgraduate Certificate in Oil and Gas Operation;

40. Postgraduate Diploma in Oil and Gas Operation;

41. Postgraduate Certificate in Oil and Gas Accounting;

42. Postgraduate Diploma in Oil and Gas Accounting;

43. Postgraduate Certificate in Politics and Economic Development;

44. Postgraduate Diploma in Politics and Economic Development;

45. Postgraduate Certificate in Procurement Management;

46. Postgraduate Diploma in Procurement Management;

47. Postgraduate Certificate in Project Management;

48. Postgraduate Diploma in Project Management;

49. Postgraduate Certificate in Public Administration;

50. Postgraduate Diploma in Public Administration;

51. Postgraduate Certificate in Quality Management;

52. Postgraduate Diploma in Quality Management;

53. Postgraduate Certificate in Real Estate Management;

54. Postgraduate Diploma in Real Estate Management;

55. Postgraduate Certificate n Research Methods;

56. Postgraduate Diploma in Research Methods;

57. Postgraduate Certificate in Risk Management;

58. Postgraduate Diploma in Risk Management;

59. Postgraduate Certificate in Sales and Marketing;

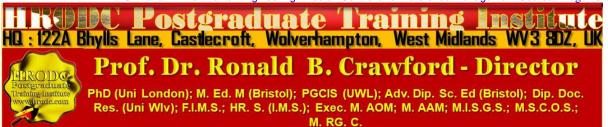
60. Postgraduate Diploma in Sales and Marketing;

61. Postgraduate Certificate in Travel, Tourism and International Relations;

62. Postgraduate Diploma in Travel, Tourism and International Relations.

The actual courses studied will be detailed in a student or delegate's Transcript.

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# Prof. Dr. Ronald B. Crawford Director

**HRODC Postgraduate Training Institute** 

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