

## ANSWERS Software Service – Programme of Courses 2023-2024

| Course                                     | Who Should Attend   | Objectives  | Dates   | Fees (non-residential)         |
|--|---|---|---|--------------------------------|
| <b>Introduction to MCBEND</b>              | New or inexperienced users of MCBEND.   | The course is aimed at providing the new or inexperienced user of the software with a broad understanding of the capabilities of MCBEND, covering a range of radiation transport scenarios and applications.  | 26-29 Sep 2023<br><br>6-9 Feb 2024<br><br>(4 Days)        | <b>£2,630</b><br><br>Excl. VAT |
| <b>Advanced MCBEND</b>                     | For those with significant experience of MCBEND and who ideally have attended the introductory MCBEND course. | The course is aimed at providing the experienced user of MCBEND with more understanding of the theoretical ideas behind the code and their implementation within the software.  | 3-5 Oct 2023<br><br>20-22 Feb 2024<br><br>(3 Days)        | <b>£2,200</b><br><br>Excl. VAT |
| <b>Introduction to MONK</b>                | New or inexperienced users of MONK  | To provide the new or inexperienced user of MONK for criticality purposes with a broad understanding of the capabilities of the code and hands-on experience of constructing input specifications.  | 10-13 Oct 2023<br><br>27 Feb – 1 Mar 2024<br><br>(4 Days) | <b>£2,630</b><br><br>Excl. VAT |
| <b>Advanced MONK</b>                       | For those with significant experience of MONK and who ideally have attended the introductory MONK course.     | The course is aimed at providing the experienced user of MONK with more understanding of the theoretical ideas behind the code and their implementation within the software.  | 17-19 Oct 2023<br><br>5-7 Mar 2024<br><br>(3 Days)        | <b>£2,200</b><br><br>Excl. VAT |
| <b>Introduction to WIMS</b>                | New or inexperienced users of WIMS  | The course is aimed at providing the new or inexperienced user of WIMS with a broad understanding of the capabilities of the code and hands-on experience of constructing input specifications.   | 30 Oct – 3 Nov 2023<br><br>11-15 Mar 2024<br><br>(5 Days) | <b>£3,335</b><br><br>Excl. VAT |
| <b>SMR Whole Core Modelling using WIMS</b> | Experienced users of WIMS   | The course is aimed at providing experienced users of WIMS with an understanding of the capabilities of the code for the whole core modelling of Small Modular Reactors. This includes development of the whole core model and simulation of the through life core behaviour, including coupled neutronic and thermal hydraulic feedback. | 7-9 Nov 2023<br><br>19-21 Mar 2024<br><br>(3 Days)        | <b>£2,200</b><br><br>Excl. VAT |

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|--------------------------------|---|--|--|----------------------------|
| <b>Advanced WIMS</b>           | For those with significant experience of WIMS and who ideally have attended the introductory WIMS course. | The course is aimed at providing the experienced user of WIMS with more understanding of the theoretical ideas behind the code and their implementation within the software.   | 14-17 Nov 2023<br>26-29 Mar 2024<br>(4 Days) | <b>£2,630</b><br>Excl. VAT |
| <b>Introduction to FEAT</b>    | New or inexperienced users of FEAT  | The course is aimed at providing the inexperienced user of the software with a broad understanding of the capabilities of the code and to teach the efficient use of FEAT in the thermal, fluids and stress engineering areas. | On Request<br>(4 Days)                       | <b>£2,630</b><br>Excl. VAT |
| <b>Introduction to RANKERN</b> | New or inexperienced users of RANKERN   | The course is aimed at providing the inexperienced user of the software with a broad understanding of the capabilities of RANKERN (a 3D Point-Kernel computer program written for gamma-ray analysis).                         | On Request<br>(2.5 Days)                     | <b>£2,200</b><br>Excl. VAT |
| <b>Introduction to FISPIN</b>  | New or inexperienced users of FISPIN  | The course is aimed at providing the inexperienced user of the software with a broad understanding of the capabilities of calculation of nuclide inventories.  | On Request<br>(1.5 Days)                     | <b>£1,700</b><br>Excl. VAT |

The pre-requisites for standard courses are as follows:

| Pre-requisite   | Intro to RANKERN                        | Intro to MCBEND                         | Adv MCBEND  | Intro to MONK                           | Adv MONK                          | Intro to WIMS                           | Adv WIMS                          |
|---|---|---|---|---|-----------------------------------|---|-----------------------------------|
| Previous experience of using the code                             | Not essential                           | Not essential                           | Required, unless very experienced in an equivalent code (e.g. MCNP) | Not essential                           | Required                          | Not essential                           | Required                          |
| Previous experience of equivalent radiological transport software | Not essential                           | Not essential                           | Useful but not essential  | Not essential                           | Not essential                     | Not essential                           | Useful but not essential          |
| Previous coding experience  | Basic knowledge useful but not required | Basic knowledge useful but not required | Basic competency required   | Basic knowledge useful but not required | Basic competency required         | Basic knowledge useful but not required | Basic competency required         |
| Understanding of underlying physics and mathematics               | Degree-level                            | Degree-level                            | Post-doc or industrial equivalent                                   | Degree-level                            | Post-doc or industrial equivalent | Degree-level                            | Post-doc or industrial equivalent |

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## Booking Form

Registration: Please complete the booking form and email to: [paula.miller@jacobs.com](mailto:paula.miller@jacobs.com)

For any enquiries please contact Paula Miller by email or telephone: 01305 595527

### Registration Information

|  |  |  |
|--|--|--|
| Course Title                           |  |  |
| Course Dates                           |  |  |
| Delegate Name(s)                       |  |  |
| Company                                |  |  |
| Address                                |  |  |
| Telephone Number                       |  |  |
| Email Address                          |  |  |
| Cost per Delegate £<br>(excluding VAT) |  |  |

**For WIMS Courses Only:** Please advise which reactor types you are primarily interested in

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**Payment:** to be made via Purchase Order

Purchase Order to be made out to: **Energy, Safety and Risk Consultants (UK) Ltd**

Attendance on the course will only be confirmed once the Purchase Order has been received.

**All ANSWERS training courses are subject to Jacobs Form A Terms and Conditions.**

**Payment to be received at least 28 days in advance of the course commencement date.**

**Cancellations:** Please note that cancellations of confirmed bookings must be made in writing and may incur cancellation charges. Cancellations received 7-14 days before the start of the course will incur a charge of 50% of the course fee. No refund can be made for cancellations received within 7 days of the start of the course. Energy, Safety and Risk Consultants (UK) Ltd. retains the right to cancel the course at any time.

**Correspondence:**  
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