

UKMOD Training Course

28-29 June 2023

Venue: abrdn FFT, 6 St Andrew Square, Edinburgh, EH2 2AH

Team: Daria Popova, Matteo Richiardi and Justin Van De Ven

UKMOD model and data

- Download and install the model following the instructions here: <https://www.microsimulation.ac.uk/ukmod/access>. You can also request UKMOD input datasets via the same webpage if you wish. In the training we will use training data supplied with the public-access version of the model.
- Please email iser-ukmod@essex.ac.uk with any problems you encounter and we will try to help.

During the course

- Course timetable is in GMT (UK time).
- You will need to bring your own laptop, install the UKMOD software and download the model as explained above.
- The course is organised as a mixture of lectures and hands-on exercises. We will be showing you a step-by-step solution for each exercise.
- Each session includes time for questions as well as a dedicated Q&A session.
- We would welcome your feedback on what went well and not-so-well throughout and following the programme.

Course Programme

Day 1 – Wednesday 28 June 2023

Instructor: Daria Popova

(UK Time)	Topic
9.30 – 10.00	Arrival and refreshments
10.00 – 11.00	Session 1 <ul style="list-style-type: none">• Introduction: static tax-benefit models, distributional analysis and the UKMOD project
11.00 – 11.10	Break
11.10 – 12.00	Session 2 <ul style="list-style-type: none">• How UKMOD works• Exercise 1: Running the model and using the <i>Statistics Presenter</i>
12.00 – 13.00	Lunch break
13.00 – 14.00	Session 3 <ul style="list-style-type: none">• EUROMOD tax-benefit microsimulation language• Exercise 2: Implementing a reform and analysis using the <i>Statistics Presenter</i>
14.00 – 14.10	Break
14.10 – 15.30	Session 4 <ul style="list-style-type: none">• The policy spine• The policy functions <i>Elig & ArithOp</i> and the parameters <i>amounts, formula, queries</i>• Exercise 3: Implementing a reform using <i>Elig & ArithOp</i>
15.30 – 15.40	Break
15.40 – 16.40	Session 5 <ul style="list-style-type: none">• Handling errors• Types of function• The policy function <i>BenCalc</i>• Exercise 4: Implementing a reform using <i>BenCalc</i>
16.40 – 17.00	<ul style="list-style-type: none">• Q&A
17.00	End of Day 1

Course Programme

Day 2 – Thursday 29 June 2023

Instructor: Justin van de Ven

(UK Time)	Topic
9.30 – 10.00	Arrival and refreshments
10.00 – 11.00	Session 6 <ul style="list-style-type: none">• Re-cap of Day 2 (functions <i>Elig</i>, <i>ArithOp</i> and <i>BenCalc</i>)• The policy function <i>SchedCalc</i>• The system functions <i>DefConst</i> & <i>DefIL</i>
11.00-11.10	Break
11.10 – 12.30	Session 7 <ul style="list-style-type: none">• Exercise 5: Modifying income tax using <i>SchedCalc</i> and <i>DefConst</i>• Exercise 6: Modifying the benefit cap using <i>DefIL</i>
12.30 – 13.30	Lunch break
13.30 – 15.00	Session 8 <ul style="list-style-type: none">• The policy function <i>Allocate</i>• Assessment units and the system function <i>DefTU</i>• Exercise 7: Modifying the benefit unit using <i>DefTU</i>
15.00 – 15.15	Break
15.15 – 16.30	Session 9 <ul style="list-style-type: none">• Adding variables and system function <i>DefVar</i>• System function <i>SetDefault</i>• Uprating indices and the system function <i>Uprate</i>• System function <i>DefOutput</i>
16.30-17.00	<ul style="list-style-type: none">• Q&A
17.00	End of Day 2