UKMOD Training course

17-18 May 2023

Venue:

Trades Union Congress

Congress House, Great Russell Street London, WC1B 3LS

Teaching team: Daria Popova, Matteo Richiardi and Justin Van De Ven

Before the course: install UKMOD

- Download the EUROMOD software engine and the UKMOD model from https://www.microsimulation.ac.uk/ukmod/access/. The course will use training data, so you do not need to apply for the real data (but you might wish to do so). Follow the installation instructions.
- If you experience any problem, please email iser-ukmod@essex.ac.uk 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 and the input data 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/did not go well and on how we can improve!









Course Programme

Instructors: Justin Van De Ven and Matteo Richiardi

Day 1 – Wednesday, 17 May 2023

Time	Topic
9.30 - 10.00	Arrival and refreshments
10.00 - 11.00	Session 1
	Introduction: static tax-benefit models, distributional analysis and the UKMOD project
	How UKMOD works
	• Exercise 1: Running the model and using the <i>Statistics Presenter</i> for analysis
11.00 – 11.10	Break
11.10 – 12.30	Session 2
11110 12100	 EUROMOD tax-benefit microsimulation language Exercise 2: Implementing a reform to the UK model and using the <i>Statistics Presenter</i> for analysis
12.30 - 13.30	Lunch break
13.30 – 15.00	 Session 3 The Policy Spine The Policy functions <i>Elig & ArithOp</i> and the parameters <i>amounts, formula, queries</i> Exercise 3: Implementing a reform to the Child Benefit, using <i>Elig & ArithOp</i>
15.00 - 15.15	Break
15.15 – 16.45	 Session 4 Handling errors Types of function The Policy function BenCalc Exercise 4: Implementing a reform to the Child Benefit, using BenCalc
16.45-17.00	• Q&A
17.00	End of Day 1









Day 2 – Thursday, 18 May 2023

Instructors: Matteo Richiardi and Daria Popova

Time	Topic
9.30 - 10.00	Arrival and refreshments
10.00 - 11.00	Session 5
	• Re-cap of Day 2 (functions <i>Elig, ArithOp and BenCalc</i>)
	• The policy function <i>SchedCalc</i>
	• The system functions <i>DefConst & DefIL</i>
11.00-11.10	Break
11.10 - 12.30	Session 6
	• Exercise 5: Modifying the income tax in the UK, using <i>SchedCalc</i>
	and DefConst
	• Exercise 6: Modifying the benefit cap in the UK, using <i>DefIL</i>
12.30 - 13.30	Lunch break
13.30 - 15.00	Session 7
	The Policy function <i>Allocate</i>
	 Assessment units and the system function <i>DefTU</i>
	• Exercise 7: Modifying the benefit unit in the UK, using <i>DefTU</i>
15.00 - 15.15	Break
15.15 - 16.30	Session 8
	 Uprating indices and the system function <i>Uprate</i>
	 Variable types and system function DefVar
	System function <i>DefOutput</i>
16.30-17.00	• Q&A
17.00	End of Day 2







