



A Program of The Actuarial Foundation

Modeling the Future Challenge

MTFC Actuarial Process Teacher Training Syllabus + Checkpoint Materials || Summer 2022

Summer 2022 Trainings Information

Pre-session Work	Session #1	Mid-session Work	Session #2	Post-session Work	Session #3: Workshops
Asynchronous tasks before Session #1	Thursday July 21 10AM - 1PM Central	Asynchronous tasks before Session #2	Thursday July 28 10AM - 1PM Central	Asynchronous final tasks	Thursday August 4 10AM - 1PM Central
1 hour	3 hours	2 hours	3 hours	2 hours	3 hours

Session Description

In the Actuarial Process Training, participants will engage with educators and competition experts in understanding the ways in which challenge-based learning can motivate and guide learning and student engagement by engaging in interdisciplinary real-world scenarios. Participants will leave with hands-on experience with what actuarial science is as a discipline, what actuaries do, an overview of math modeling, risk analysis, recommendation formulation, and specifically how the Modeling the Future Challenge can support interdisciplinary learning. An overview of the Modeling the Future Challenge format and resources for planning timeline and training curriculum as well as pointers on how to build and recruit students for MTFC teams will be provided. Participants will have in-session work time in creating their own mock MTFC Project Proposals and scenario responses with reflection and input from facilitators through the training and then throughout the competition phases.

Stipend requirements:

- Must have a math or computer science teaching assignment, junior or senior level math courses (or equivalent)
- Must make every good faith effort to coach and register at least one team for the Modeling the Future Challenge (FREE registration, new season of Challenge launches August 2022)
- Active attendance at all three trainings
- Successful submission of 7 of 7 Checkpoint tasks

Certificate of Completion for Professional Development: **14 hours**

- 9 hours training + 5 hours outside work (pre-session and between sessions) = 14 hours of professional development

Zoom Links

Session #1	Thursday, July 21 10AM-1PM Central	Session #1 Zoom Link
Session #2	Thursday, July 28 10AM-1PM Central	Session #2 Zoom Link
Session #3	Thursday, August 4 10AM-1PM Central	Session #3 Zoom Link



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Summer Training Checkpoint Tasks

Every task is fully outlined in the MTFC Training Course and will be submitted on that platform.

To access the MTFC Training Course:

- Log in to your Institute of Competition Sciences account: <https://www.competitionsscience.org/>
- Go to your “Dashboard” by clicking on the top right hand corner button.
- Go to “My Courses” on the left-hand menu.
- Click on the “MTFC Teacher Training” to enter the course.

Checkpoint Task	Materials + Description	Due Date & Submission Format
Pre-training	Complete & Submit MTFC Actuarial Process Commitment form & Create ICS account	Friday, July 15 Submit fillable PDF
Checkpoint #1 <i>done before Session #1</i>	Flip Video Introduction	Wednesday, July 20 Flip Video & Training Course Site
Checkpoint #2 <i>done before Session #1</i>	MTFC Overview Pre-reading “quiz”	Wednesday, July 20 Training Course Site
Checkpoint #3 <i>done before Session #2</i>	Mini scenario submission with meta reflection	Wednesday, July 27 Training Course Site
Checkpoint #4 <i>done before Session #2</i>	Data source exploration, evaluation, and visualization	Wednesday, July 27 Training Course Site
Checkpoint #5 <i>done after Session #2</i>	Submit 1-page Project Proposal	Wednesday, Aug 3 Training Course Site
Checkpoint #6 <i>done after Session #2</i>	Flip Video Reflection: Proposal & Overall Training	Wednesday, Aug 3 Flip Video & Training Course Site
Checkpoint #7 <i>done after Session #3: Workshops</i>	Training Survey	Friday, Aug 5 Training Course Site
Post-training <i>optional</i>	Attend the August 25 MTFC Launch Webinar	Thursday, August 25 Zoom
Post-training	Register a team for the 2022-23 Modeling the Future Challenge	September 12-Nov 11 ICS Platform



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Session #1

Thursday, July 21 || 10AM-1PM Central

Session Focus:

- Welcome
- Challenge Overview
- Actuarial Process
- Scenario Response Training
- Resources Preview
- Q&A

Session #2

Thursday, July 28 || 10AM-1PM Central

Session Focus:

- Recap
- Project Proposals
- Project Phase Resources
- Specific Skill focus
- Q&A

Session #3: Workshops

Thursday, August 4 || 10AM-1PM Central

Session Focus:

- Workshop-style sessions - final sessions TBD
 - Building Teams & Implementation
 - Specific Math Skills
 - Feedback