## GYSEOY 2024/25 Master Schedule: Deliverables, Training, Questions-and-Answer sessions, Mentoring, and the formal Requirement Review and the formal Concept Design Review

	Sequence number	System engineering-speak	GENESYS ™-speak	Format	Deliverable hand-in	Training requirements	Event date
	1 Cape	Get to Know You Meeting (Cape)				Scenario, Evaluation, Training, GENESYS <sup>TM</sup> , Q & A, Master Schedule, mentorship, general	15 April 2024
	2 Cape	Definition of root problem List of all stakeholders	_	Text (pdf file)			
	3 Cape	Definition of key performance indicators (measures of effectiveness)	_	Text (pdf file)		System engineering:  Deguirements: Stekeholder	15 and 16 April 2024. [All training will occur
space"	4 Cape	Specification of as-is and to-be values of the key performance indicators (measures of effectiveness), including the rationale for each key performance indicator		Text (pdf file)	12 May	2024 System life cycle: Stages, gates, baselines and life cycle processes. System principles: Hierarchy and emergence. Symptoms versus the root	
" Problem space"	5 Cape	Validation or verification requirement for each key performance indicator (measure of effectiveness)		Table with traceability of verifica- tion requi- rements (pdf file)	2024		
	6 Cape	Context diagram with external co-functioning systems and the specification of all external interfaces.	_	Context diagram, specifica- tion of all external interfaces		problem. Context diagram. Interface management.	

	Sequence number	System engineering-speak	GENESYS TM_ speak	Format	Deliverable hand-in	Training requirements	Event date
	7 Cape	Validation or verification requirement for each key performance indicator (measure of effectiveness)	Table maker script to create document	Table output of verifica- tion require- ments showing traceability (pdf file)		GENESYS TM. Capture source requirements, preliminary requirements breakdown and analysis. Identify requirement types (constraint, functional, performance). Verification	TBD [Most training will occur on the INCOSE EMEA Zoom account at
" Problem space"	8 Cape	Context diagram with external co-functioning systems and the specification of all external interfaces.	Interface block diagram, and Interface details	System description document with appropriate sections selected (pdf file)	10 June 2024	requirements (method, level, description, verifying requirements and functions). Generate basic outputs of information from the model (table maker, system description document). Building components in GENESYS™. Connecting components via interfaces.	dates to be scheduled with either all teams jointly, or each team separately, preferably outside working hours.]
	1 Pretoria	Get to Know You Meeting (Pretoria)				Scenario, Evaluation, Training, GENESYS <sup>TM</sup> , Q & A, Master Schedule, mentorship, general	22 April 2024
	2 Pretoria	Definition of root problem List of all stakeholders		Text (pdf file)	20 Max	System engineering: Requirements: Stakeholder	22 and 23
	3 Pretoria	Definition of key performance indicators (measures of effectiveness)	_	Text (pdf file)	20 May 2024	requirements versus system requirements, requirements for a requirement.	April 2024 [face-to-face]

	Sequence number	System engineering-speak	GENESYS ™_ speak	Format	Deliverable hand-in	Training requirements	Event date
	4 Pretoria	Specification of as-is and to- be values of the key performance indicators (measures of effectiveness), including the rationale for each key performance indicator		Text (pdf file)		System engineering: Requirements: Traceability, validation and verification. Functional requirements and performance requirements. System life cycle: Stages, gates, baselines and life cycle processes. System principles: Hierarchy and emergence. Symptoms versus the root problem. Context diagram. Interface management.	
Space"	5 Pretoria	Validation or verification requirement for each key performance indicator (measure of effectiveness)		Table with traceability of verifica- tion requi- rements (pdf file)	20 May 2024		22 and 23 April 2024 [face-to-face]
" Problem Space"	6 Pretoria	Context diagram with external co-functioning systems and the specification of all external interfaces.		Context diagram, specification of all external interfaces			
	7 Pretoria	Validation or verification requirement for each key performance indicator (measure of effectiveness)	Table maker script to create document	Table output of verifica- tion require- ments showing traceability (pdf file)	10 June 2024	GENESYS TM: Capture source requirements, preliminary requirements breakdown and analysis. Identify requirement types (constraint, functional, performance). Verification requirements (method, level, description, verifying requirements and functions).	TBD [Most training will occur on the INCOSE EMEA Zoom account at dates to be scheduled.]

	Sequence number	System engineering-speak	GENESYS TM_ speak	Format	Deliverable hand-in	Training requirements	Event date
,e,,	8 Pretoria	Context diagram with external co-functioning systems and the specification of all external interfaces.	diagram and	System description document with appropriate sections selected (pdf file)	10 June 2024	Generate basic outputs of information from the model (table maker, system description document). Building components in GENESYS <sup>TM</sup> . Connecting components via interfaces.	[Preferably outside working hours.]
Problem Space"	9 Cape					One-day mentorship training session	2 May 2024
Proble	9 Pretoria					One-day mentorship training session	3 May2024
.,	10					Question-and-Answer	10 May 2024
	10					sessions	31 May 2024
	11		Report from	each externa	ıl mentor		10 June 2024
	12	Formal Stakeholder Requirement Review by the Evaluation Panel based on the deliverables due on 13or 20 May and 10 June 2024, as well as an oral presentation					13 and 14 June 2024

	Sequence number	System engineering-speak	GENESYS TM_ speak	Format	Deliverable hand-in	Training requirements	Event date	
" Problem space"	13	Validation or verification requirement for each external interface.		Table output of verifica- tion require- ments show- ing trace- ability (pdf file)  System description document (pdf file)		Cost-effectiveness decision-making models. Activity diagrams and functional flow block diagrams.  GENESYS TM. Creating use cases in GENESYS TM.	Concept exploration. Use cases and use case diagrams. Cost-effectiveness decision-making models. Activity diagrams and functional	SE training will be part of the Q and A sessions scheduled for 28 June and 19 July
" Solution space"	14	Definition of relevant solution concepts, including the operations concept, logistic support concept, personnel concept, et cetera	_	Text (pdf file)	29 July 2024		TBD	
Problem space"	15	Use case diagram showing all relevant use cases.	System description document with concise description of each use case.	System description document (pdf file). Concise description of each use case.		Creating activity diagrams in GENESYS™. Linking the activity diagrams to the use cases (creating behavioural threads)	IDD	
" Pı	16	Specification of performance requirements for each use case, including the rationale for each.	_					

	Sequence number	System engineering-speak	GENESYS TM_ speak	Format	Deliverable hand-in	Training requirements	Event date
Problem space"	17	Validation or verification requirements for each use case and for its performance requirements.	_		29 July 2024		
Problen	18					Question-and-Answer sessions	28 June 2024 19 July 2024
3	19		Report from	each external	l mentor		29 July 2024
	20	Informal oral feedback by Evaluation Panel of deliverables from 29 July 2024					1 and 2 August 2024
" Solution space"	21	Activity diagram for each use case.  [The functional architecture consists of all use cases jointly with all their activity diagrams]	Either the complete model from GENESYS™, or a manually created text	GENESYS™ model export (*.gnux file)	16 September 2024	System engineering: Context diagram versus schematic block diagram. Functional analysis, allocation, implementation and synthesis.  GENESYS TM: Integrating behavioural threads from use cases and activity	SE training will be part of the Q and A sessions
	22	Specification of the performance requirements for each activity (function) in each activity diagram, including the rationale for each.				diagrams. Segmenting behaviour to the system and its context on layer 1 of architecture (not down to next-lower assembly)	TBD

	Sequence number	System engineering-speak	GENESYS ™_ speak	Format	Deliverable hand-in	Training requirements	Event date			
	23	Verification requirements for each internal interface.	_							
	24	Validation or verification requirements for the performance requirements of each activity in each activity diagram.	_		16 September 2024					
	25					Question-and-Answer	23 Aug 2024 6 Sept 2024			
				sessions						
	26		Report from	Report from each external mentor						
Solution space"	27	Informal oral feedback by Evaluation Panel of deliver- ables from 16 September 2024					19 and 20 September 2024			
" Solutio	28	Allocation of each function and its performance requirements to a system element	Functions allocated to components			GENESYS TM. Allocate functional architecture onto a physical architecture. Move between layer 1 and layer 2	SE training will be part of			
	29	Schematic block diagram showing all system elements and all external and internal interfaces. [This is the physical architecture]	Physical block diagram showing components and physical links		4 November 2024	in architecture. Keep the functional and physical architecture in sync. Create layer 2 interfaces and functional item flows. Create	the Q and A sessions scheduled for 11 and 25 October 2024			
	30	Specify each internal interface.	_			layer 1 and layer 2 physical links that comprise the identified interfaces (physical instantiation of interfaces). Link transfer identified items from the behaviour.	TBD			

	Sequence number	System engineering speak	GENESYS ™- speak	Format	Deliverable hand-in	Training requirements	Event date
	31					Question-and-Answer sessions	11 October 2024 25 October 2024
	32		Report from	n each extern	al mentor		4 November 2024
	33	Informal oral feedback by Evaluation Panel of deliver- ables from 4 November 2024					7 and 8 November 2024
" Solution space"	34	System specification (or at least the substantive core of a system specification)  [Note: The system description document from GENESYS <sup>TM</sup> contains much information to populate a system specification, but does not follow any particular list of contents]	System description document from GENESYS <sup>TM</sup> . Complete model exported from GENESYS <sup>TM</sup>	System description document (pdf file). GENESYS™ model export (*.gnux file)	20 January 2025		
	35	An individual GYSEOY 2024 diary for each team member where she/he records: Date, topic discussed, duration, location	_	Spreadsheet (pdf file)	Hand in whatever version is available at each of the hand-in dates specified above		

	Sequence number	System engineering-speak	GENESYS <sup>TM</sup> _ speak	Format	Deliverable hand-in	Training requirements	Event date
on space"	36	Create htm of the Genesys <sup>TM</sup> database. Access the reports menu. Select "Teamview". Save output in a folder named "Teamview".	-				
	37				Question-and-Answer sessions	22 November 2024 10 January 2025	
Solution	38		Report from ea		20 January 2025		
os "	39	Formal System Design Review by the Evaluation Panel based on the system description document from GENESYS™, as well as an oral presentation					23 and 24 January 2025

## Comments

- System engineering is an iterative process. Formal deliverables will be required by the stated dates, and formal or informal feedback will be given. However each team can subsequently change their deliverable, based on the feedback, or further insight obtained during the GYSEOY process. Document version control will need to be strictly performed.
- The evaluation panel will evaluate the interim deliverables only on the basis of documents. The same general oral feedback will be provided to all teams, to prevent any possibility that one team is provided specific unintended feedback that provides an unfair advantage over other teams.

- A GYSEOY drop box account will be opened with general folder for general use by all, and a separate private folder for each GYSEOY team.
- 4 All training on the principles of system engineering will occur face-to-face as scheduled. Additional training sessions will occur during the Question-and-Answer sessions.
- All Genesys<sup>TM</sup> training will be scheduled TBD, with some face-to-face and some on the INCOSE EMEA Zoom account. Sessions will be scheduled with either both teams jointly, or each team separately, preferably outside working hours.