

**MS4SSA Training and Node Launch
Gambia
November 18 – 22, 2019
Schedule**

Day 1:

Time	Activities
8:00-8:30	Registration and Pre-training Assessment
8:30-8:45	Opening Ceremony – Opening and welcome remarks Gambian Representative
8:45 – 9:30	Presentation on MS4SSA – What is MS4SSA, history (including activities in Rwanda, Nigeria, Ghana, Niger, and Mauritius, etc.) Wole Soboyejo
9:30 -10:00	MS4SSA commitments and expectations from Gambia Roles and responsibilities for all partners Gambian Representative
10:00-10:30	TEA BREAK
10:30-12:00	Introduction to Project Based Learning: Assessments Kim Hollan
12:00-13:00	LUNCH
13:00-14:00	Introduction to Robotics (African Context and Competitions) and 3D Printing Modules Wole Soboyejo, Brad Miller, Ali Salifu
14:00 – 15:30	LABs: Hands on Robot Tank Drive and 3D printing Brad Miller, Kim Hollan, Ali Salifu
15:30-16:00	TEA BREAK
16:00-17:00	Reflection on Implementation of MS4SSA in Schools

Day 2:

Time	Activities
8:00 - 10:00	Electricity and Introduction to Solar Lanterns and LAB: Solar Lantern Assembly Wole Soboyejo and Ali Salifu
10:00-10:30	TEA BREAK
10:30-11:30	LAB: Solar Lantern/Energy MS4SSA Wole Soboyejo and Ali Salifu
12:00-13:00	LUNCH
13:00 - 14:15	Introduction to Materials Science and Materials Design Wole Soboyejo
14:15 - 15:30	Case Studies in Project Based Learning Wole Soboyejo
15:30-16:00	TEA BREAK
16:00-17:00	Reflection on Implementation of MS4SSA in Schools

Day 3:

Time	Activity
9:00 - 10:30	Assembly of Robots – arm kits with video Brad Miller and Kim Hollan
10:30-11:00	TEA BREAK
11:00-12:30	Programming of Robots Brad Miller and Kim Hollan
12:30-14:00	LUNCH
14:00-15:30	3D Printing and Modeling Ali Salifu and Brad Miller
15:30-16:00	TEA BREAK
16:00-17:00	Plickers, MS4SSA Website and Canvas Overview Kim Hollan
17:00 – 17:30	Reflection on Implementation of MS4SSA in schools

Day 4:

Time	Activity
9:00 - 10:00	Introduction to Ceramic Water Filtration and Microbial Characterization Ali Salifu
10:00-10:30	TEA BREAK
11:30-12:30	LAB: Water Filtration Ali Salifu
12:30-14:00	LUNCH
14:00-15:30	LAB: Water Filtration Ali Salifu
15:30-16:00	TEA BREAK
16:00-17:00	Reflection on Implementation of MS4SSA in Schools

Day 5:

Time	Activity
9:00 - 9:30	LAB: Water Filtration Lab Results Ali Salifu
10:00 - 10:30	Post Training Assessments (Teacher Beliefs and Teacher Feedback)
10:00-10:30	TEA BREAK
11:00-12:30	Supervised Teaching led by Gambian trainers
12:30-14:00	LUNCH
14:00 - 15:00	Award of Certificates
15:00-16:30	Supervised Teaching led by Gambian trainers
16:30 - 17:00	Closing Remarks