

Republic of the Philippines  
**Department of Education**  
Region VII, Central Visayas  
**DIVISION OF CEBU PROVINCE**  
Sudlon, Lahug, Cebu City



October 21, 2016

Division Memorandum  
No. 679, s.2016

**2<sup>ND</sup> COMPASS STEM ROBOTICS CUP**

To: Assistant Superintendents  
Education Supervisors/ Coordinators  
District Supervisors/OICs  
Secondary School Heads  
STE and SSES Implementing School Heads

1. Attached is DepEd R7 Advisory No.113, s.2016, dated October 14, 2016, entitled ,  
“ 2<sup>nd</sup> Compass STEM Robotics Cup. ”
2. Wide dissemination of this Memorandum is desired .

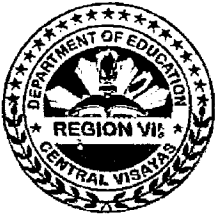
  
**RHEA MAE A. ANGTUD, Ed.D., CESO VI**  
**Schools Division Superintendent**

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REPUBLIKA NG PILIPINAS  
REPUBLIC OF THE PHILIPPINES  
KAGAWARAN NG EDUKASYON  
DEPARTMENT OF EDUCATION  
**REHIYON VII, GITNANG VISAYAS**  
REGION VII, CENTRAL VISAYAS  
Sudlon, Lahug, Cebu City



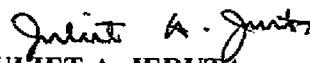
DepEd R7 Advisory No.113, s. 2016

October 14, 2016

(In compliance with DepEd Order No.8, s.2013, this advisory is issued for the information of DepEd officials, personnel/staff, as well as the concerned public.)

**2<sup>nd</sup> Compass STEM Robotics Cup**

1. This office is hereby disseminating the communication received from the Compass Education, inviting all public and private schools in Cebu Province to participate in its 2<sup>nd</sup> Compass STEM Robotics Cup on November 12-13, 2016 at Robinson's Galleria. Registration fee for the public school students will be waived.
2. Developing the 21<sup>st</sup> century skills and technological literacy of every learner, Compass Education also offers Science, Technology, Engineering, Art and Math (STEAM) robotics, coding, programming and multimedia presentations.
3. The communication and other related documents are herewith attached for reference.
4. For the information of all interested and concerned parties.

  
**JULIET A. JERUTA**  
Director III  
OIC-Regional Director

RD  
ARV

Office of the Director (ORDir), Tel. Nos.: (032) 231-1433; 231-1309; 414-7399; 414-7325; Office of the Assistant Director, Tel. No.: (032) 255-4542  
Field Technical Assistance Division (FTAD), Tel. Nos.: (032) 414-7324 Curriculum Learning Management Division (CLMD), Tel. Nos.: (032) 414-7323  
Quality Assurance Division (QAD), Tel. Nos.: (032) 231-1071 Human Resource Development Division (HRDD), Tel. No.: (032) 255-5239  
Education Support Services Division (ESSD), Tel. No.: (032) 254-7062 Planning, Policy and Research Division (PPRD), Tel. Nos.: (032) 233-9050;  
414-7065 Administrative Division, Tel. Nos.: (032) 414-7326; 414-4367; 414-7366; 414-7322; 414-4367  
Finance Division, Tel. Nos.: (032) 256-2375; 253-8061; 414-7321

*"ESA 2015: Karapatan ng Lahat, Pananagutan ng Lahat"*

# COMPASS

EDUCATION

September 20, 2016

Juliet A. Jeruta, Ph. D., CESO V  
Director II  
Office in-Charge, Office of the Regional Director

Dear Dr. Juliet Jeruta,

Compass Education believes in developing 21<sup>st</sup> Century Learning Skills. We believe that each Filipino student can achieve success given the right tools and opportunities. Thus, we proudly partner with schools and other non-profit institutions who believe in propelling their learners forward.


We offer STEAM (Science, Technology, Engineering, Art and Math) such as robotics, coding, programming, and multimedia presentations. These programs not only develop 21<sup>st</sup> Century skills but also technological literacy.

We are pleased to invite all the public and private schools in Cebu Province to participate in our "2<sup>nd</sup> Compass STEM Robotics Cup" at Robinson's Galleria on November 12 & 13, 2016. The registration fee will be waived for public school students.

We hope that your office can help us in disseminating information about the upcoming competition. We also hope to have more participation from the public schools. We especially want encourage the educators who have been participated in an event we sponsored last summer, Robo4Ed, to join. This is a great opportunity for their students to express their creativity and showcase their problem solving skills.

Attached below is more information about the 2<sup>nd</sup> Compass Education Robotics Cup. For any questions and concerns, please call us at (032) 319-0640 or visit our website at [www.mycompassedu.com](http://www.mycompassedu.com). Thank you.

Sincerely,

  
\_\_\_\_\_  
Ana M. Quijano  
Director

# **The 2<sup>nd</sup> Compass Education Robotics Cup**

## ***Description, Rules and Mechanics***

### **A. Categories**

**1. Name of Category: Loving Cebu**

**Date and Time: November 12, 2016 ( 11:30 am- 1:30 pm)**

**Short Description: Children ages 6-9 years old will create and program a model that best represents Cebu. The model may be a new innovation that they think Cebu needs or innovating existing structures in Cebu by adding a robotic element. An example is building the famous Magellan Cross and making the cross turn clockwise. Contestants must use the motors and sensors of the Lego WeDo 1.0.**

**2. Name of Category: Trash Solutions ( 2:30 pm-4:30 pm)**

**Date and Time: November 12, 2016**

**Short Description: Children ages 10-13 years old will create and program a model that best presents a solution to the growing trash problem. Solutions may include recycling materials or conserving natural resources. Contestants must use the motors and sensors of the Lego WeDo 1.0.**

**3. Name of Category: Space Challenge ( 1:00 pm -3:00 pm)**

**Date and Time: November 13, 2016**

**Short Description: Contestants ages 10- 13 years old will complete the 7 missions in the Space Challenge mat in 3 minutes or less. Contestants must use the Lego Mindstorms EV3.**

**4. Name of Category: Everyday Solutions ( 10:30 am – 11:30 am)**

**Date and Time: November 12, 2016**

**Short Description: Contestants ages 10- 16 years old will create a robotic model that makes is a viable solution to everyday challenges. This is an open category and the everyday problem presented needs to be clearly defined and solved by their respective robots. Contestants must use the Lego Mindstorms EV3 or NXT.**

### **B. Presentation**

**The finished Robot will placed in the Exhibit area for judging and open viewing for the public. A short description of the robot and how it works will be framed next to the Robot. Contestants need to provide this information ahead of time to Compass Education. Compass Education will provide the frame.**

## **C. Rules and Mechanics**

### Loving Cebu, Trash Solutions, Everyday Solutions

1. A team is composed of 1-3 persons only.
2. Each team is required to have a team name.
3. Each member of the team can either wear their competition T- shirt given by Compass Education or their respective school uniforms. Teams are responsible for obtaining permission from their schools to wear their school uniform.
4. Teams are not allowed to bring cellphones or other devices including pen and paper for recording.
5. Coaches and family members are not allowed on the competition floor.
6. Each team will be given their own computer, tray, bag, Lego tilt sensor, Lego motion sensor, Lego USB hub, Lego motor, 10 x10 inches green Lego building plate pen and paper to be used during the competition
7. Each team needs to obtain their needed lego bricks from Compass Education prior to the competition.
8. In case each team need more materials during the competition, each team will be given chits to exchange for bricks etc... Each brick or material/s is equal to 1 chit.
9. Each team can only use materials or bricks that are provided for them by Compass Education.
10. Each team will have 2 or 3 hours to design, build and program their models. After the allotted time is over, no one is allowed to touch their model.
11. Each team can go on chaperoned bathroom break.
12. Each team is required to submit a brief description of their model with their team name. This will be framed by Compass Education and placed beside their creations.
13. After completing the task, team members will transport their model to the exhibit area supervised by a Marshall.
14. Once placed on the exhibit area, the team has 5 minutes to make minor adjustment. After which, there will be no bricks or materials that can be added or subtracted to the model.

### Everyday Solutions

1. A team is composed of 1-3 persons only.
1. Each team is required to have a team name.
2. Each member of the team can either wear their competition T- shirt given by Compass Education or their respective school uniforms. Teams are responsible for obtaining permission from their schools to wear their school uniform.
3. Teams are not allowed to bring cellphones or other devices including pen and paper for recording.
4. Coaches and family members are not allowed on the exhibit floor while contestants are setting up.
5. Each team must provide their own EV3 kits and laptop
6. The Programming for their robot can be stored in their respective laptops or EV3 Brick.
7. Team members are responsible for their robots and materials.
8. The robot must be pre-made and only minor adjustments are to be made once the robot is placed in the exhibit area.
9. Each team can go on a chaperoned bathroom break.
10. Each team is required to submit a brief description of their model with their team name. This will be framed by Compass Education and placed beside their creations.

11. Once placed on the exhibit area, the team has 60 minutes to make minor adjustments. After which, there will be no bricks or materials that can be added or subtracted to the model.

#### Space Challenge:

1. A team is composed of 1-3 persons only.
2. Each team is required to have a team name.
3. Each member of the team can either wear their competition T- shirt given by Compass Education or their respective school uniforms. Teams are responsible for obtaining permission from their schools to wear their school uniform.
4. Teams are not allowed to bring cellphones or other devices including pen and paper for recording.
5. Coaches and family members are not allowed on the competition floor.
6. Each team will bring their own laptop with no prior programs stored on it. Marshalls will check the Lego Mindstorms software and EV3 bricks. Teams who have saved programs on their software will be disqualified.
7. Each team will provide their own Lego Mindstorms EV3 kit that is not assembled. Marshalls will check the kits. Kits that have pre-assembled robots will be disqualified.
8. Teams will have 2 hours to build and program their robots.
9. Teams will have the opportunity to test their robots for 5 minutes maximum provided it is within the two hour building and programming time frame.
10. Each team will be given 3 minutes to complete the 7 missions.
11. All robot modifications such as additions need to be done while the robot is on the base. Once the robot leaves the base, contestant can no longer modify it.
12. Each team will have an opportunity to complete the missions twice. Both scores will be averaged to obtain the final score.

### **C. Scoring**

#### Loving Cebu, Trash Solutions, Everyday Solutions

Robots will be judged by multiple judges, each grading on a point scale: 100 total points being given in each of the categories below. Their scores will be added together. In the event of a tie, the judges must reconvene to choose only one winner per place.

- A. Idea, Creativity 20 %  
Does the team express originally and meaningfulness ?
- B. Craftmanship 20 %  
Is the robot well-built ?
- C. Technology 20%  
Does the robot display the best use of technology such as sensors and motors?
- D. Innovation 20 %  
Does the robot apply better solutions to meet our existing needs ?
- E. Overall Presentation 20%  
Does the visual details create a good overall impression ?

### Space Challenge

Scores will be given only if each mission is completed. The missions can be completed in any order.

Mission No.	Mission	Points
1	Launch the Satellite into Orbit	10
2	Return the Rock Samples to the base	30
3	Free the MSL Robot	10
4	Activate Communications	10
5	Secure the Power Supply	20
6	Assemble the crew	10
7	Initiate Launch	10

### **D. Declaring Objections**

No objections shall be declared against the judges' decisions.

The leader of a team can present objections to the Marshall, before the match is over, if there are any doubts in the exercising of these rules.

### **E. Flexibility of Rules**

As long as the concept and fundamentals of the rules are observed, these rules shall be flexible enough to encompass the changes in the number of players and of the contents of matches.

Modifications or abolition of the rules can be made by the local event organizers as long as they are published prior to the event, and are consistently maintained throughout the event.

### **F. Liability**

1. Participating teams are always responsible for the safety of their robots and are liable for any accidents caused by their team members or their robots.

2. Compass Education and the organizing team members will never be held responsible nor liable for any incidents and / or accidents caused by participating teams or their equipment

### **G. Awarding**

Judging will be conducted at 2:00 – 3:00 pm on November 13, 2016 by several judges. The awarding ceremony will be at 4:30 pm.

The awards are as follows:

Loving Cebu		
1 <sup>st</sup> Place	Gold Medal	Special Prize
2 <sup>nd</sup> Place	Silver Medal	
3 <sup>rd</sup> Place	Bronze Medal	
Trash Solutions		
1 <sup>st</sup> Place	Gold Medal	Special Prize
2 <sup>nd</sup> Place	Silver Medal	
3 <sup>rd</sup> Place	Bronze Medal	

### Everyday Solutions

1 <sup>st</sup> Place	Gold Medal	Special Prize
2 <sup>nd</sup> Place	Silver Medal	
3 <sup>rd</sup> Place	Bronze Medal	

### Space Challenge

1 <sup>st</sup> Place	Gold Medal	Special Prize
2 <sup>nd</sup> Place	Silver Medal	
3 <sup>rd</sup> Place	Bronze Medal	

### Social Media Award

All the models built in the Creatives Category will be posted on the Compass Education website page on November 14, 2016 at 10:00 am. The model with the most "likes" on November 18, 2016 at exactly 3:00 pm will receive the Social Media Award. Winners will be contacted by Compass Education.

1 <sup>st</sup> Place	Certificate Award and Compass gift certificate or Special Award
2 <sup>nd</sup> Place	Certificate Award and Compass gift certificate or Special Award
3 <sup>rd</sup> Place	Certificate Award and Compass gift certificate or Special Award

The gift certificate can be used to purchase educational toys or applied towards a class.

### How to join

1. Register online at [www.mycompassedu.com](http://www.mycompassedu.com) or call (032) 319-0640. We are only accepting only a total of 8 teams or 24 students on the category of Trash Solutions and Loving Cebu. The rest of the categories can have a total 12 teams or 36 students. Registration is on a first come, first serve basis.
2. Pay the registration fee of P1,350 per team. If you need assistance with paying the registration fee please call us at (032) 319-0640. The registration fee is waived (FREE) for all public school students.

#### Registration Fee covers:

- a. Registration Materials
  - b. Competition Shirt
  - c. Dry run practice (at least 3 sessions) for each team
3. Schedule the Dry Run Practice. Schedules are available on a first come, first serve basis. Dry runs are available on Friday and Saturday.
    - a. All Creatives Category can schedule their dry run practice at Compass Education
    - b. The Space Challenge can schedule their dry run practice at Compass Education and Robinson's Galleria on Nov. 12, 2016.

For more details on Registration, Rules and Mechanics please visit [www.mycompassedu.com](http://www.mycompassedu.com)  
Call (032) 319-0640, (0917) 624-4942 or visit us at Unit 7 Plaza Nouvelle, E. Benedicto St., Cebu City 6000