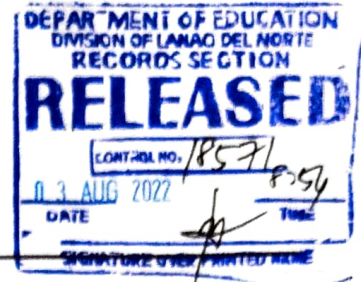




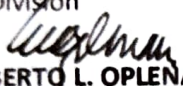

Republic of the Philippines
Department of Education
Region X- Northern Mindanao
SCHOOLS DIVISION OF LANA DEL NORTE



DIVISION MEMORANDUM

No. 363 s.2022

To: Public Schools District Supervisors
Elementary School Principals Concerned
Elementary Science Teachers
This Division

From:  **EDILBERTO L. OPLENARIA, CESO V**
Schools Division Superintendent 

Subject: **DIVISION TRAINING – WORKSHOP ON ROBOTICS FOR ELEMENTARY TEACHERS**

Date : August 2, 2022

1. Pursuant to DepEd Memo 038, s.2022, National Science and Technology Fair, another category has been added which is **ROBOTICS & INTELLIGENT MACHINE**. It is in this premise that the Curriculum Implementation Division (CID) will conduct a Division Training – Workshop on **ROBOTICS** for Elementary Science Teachers on August 18 – 19, 2022 at Baroy Central School, Baroy, Lanao del Norte.
2. The training will provide teachers with hands-on lessons and activities about the components of robotics, such as hardware, electronics, and programming, to assist them in creating new devices that can assist humans in performing daily activities and functions.
3. Enclosed are the training matrix, the number of participants per school and list of facilitators.
4. Participants are expected to have already claimed their Arduino starter kit from the Division Supply Office before the training.
5. Each participant is expected to bring a laptop, extension wire, internet connection, has already downloaded the **ARDUINO IDE** and has created an account in the TinkerCAD.
6. Teacher – participants and facilitators shall be given 3-day service credits per DepEd Order No. 53 s.2003.
7. Traveling and other incidental expenses of the participants shall be charged to local funds subject to the usual accounting and auditing rules.
8. Participants are encouraged to observe proper health protocols such as wearing of face masks and social distancing.

Enclosure No. 1 – TRAINING MATRIX**DAY 1**

Time/Duration	Title of the Session	Key Content	Person In - Charge
8:00 AM– 8:30AM	Opening Program	National Anthem Opening Prayer Opening Message Introduction of Participants and Resource Speakers	Rhona Baldago Belen T. Bastillada Maria Eva S. Edon
8:30AM-9:30AM	Introduction to Robotics Fundamentals of Robotics	ROBOTICS	Keilah E. Hoy
9:30Am- 10:30AM	Safety Procedures		Edgar Mark Secuya
10:30AM – 11:30AM	Basic Electronics		Christopher John Gayta
11:30AM- 12:30PM	Basic Construction and Programming		Ivan Belnas
12:30PM – 2:30PM	Basic Programming 1		Ivan Belnas
2:30PM – 4:30PM	Basic Programming 2		Christopher John Gayta

DAY 2

Time/Duration	Title of the Session	Key Content	Person In - Charge
8:00 AM– 8:30AM	Opening Program	Nationalistic Song Opening Prayer Recap/Energizer	Rhona Baldago
8:30 AM-10:30 AM	Advance Programming 1		Keilah E. Hoy
10:30AM – 12:30PM	Advance Programming 2		Edgar Mark Secuya
12:30PM- 3:00PM	Construction & Programming Arduino	Create robotics using Arduino Kit and encode the Arduino code	Ivan Belnas, Christopher John Gayta Keilah Hoy Edgar Mark Secuya
3:00PM – 4:00PM	Showcase of Projects using Arduino		Participants
4:00PM-5:00PM	CLOSING PROGRAM		Rhona Baldago Belen T. Bastillada Maria Eva S. Edon

Enclosure No. 2 – Number of Participants per School (Elementary)

Name of School	Number of Participants (Science and ICT teachers are preferred)
1.Bacolod CES	2
2. Maria Cristina CES	2
3.Baroy CES	2
4.Dalama CES	2
5. Kauswagan CES	2
6.Kolambugan CES	2
7.Linamon CES	2
8.Maigo CES	2
9. Sultan Macalpang Permites CES	2
10.Pantar CES	2
11.Tubod CES	2
12.Malingao CES	2
13.Kapatagan CES	2
14.Balili CES	2
15.Sixto Maghanoy CES	2
16.Maranding CES	2
17.Lanipao CES	2
18.Magsaysay CES	2
19.Salvador CES	2
20. SND CES	2
21.Sapad IS	2
22.Pantao Ragat CES	2
TOTAL	44

Enclosure No. 3 – LIST OF FACILITATORS

Name of Teacher	Name of School
1.Rosenia Bali	Geronima Cabrera NHS
2. Saul Begontes	Salvador NHS
3.Ritchel L. Marcera	Geronima Cabrera NHS
4.Mark Joram Metante	Bansarvil NHS
5. Dindo Daing	Kapatagan NHS
6.Glenn Reuben Roa	Linamon NHS
7.Harold C. Delostrico	Lala NHS
8.Elizardo Cabo	LNPSTHS
9. Wendell Estocada	PMNHS
10.Glendelle Ansing	SADMIS
11.Leah Guimba	KNHs
12.Gale Mijares	Panoloon NHS
13.Bernabe Eroy Jr.	DHPNHS