



Ruabohlale Hour of Code Report June 2022

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1. Background

Ruabohlale High School is situated in Block TT, Soshanguve, in the Gauteng Province and was established in 1994 as a Junior Secondary and was then converted to a High School in 2010. The school principal, Ms G.N. Lebese was appointed in 2020, taking over from Mr. A.K. Sono who retired in 2019. Ruabohlale HS has an enrollment of 1485 learners and a total of 45 educators.

The Hour of Code at Ruabohlale Secondary School was a week-long intervention that took place between 1 - 7 June 2022. The Hour of Code is an introductory experience with coding and computer science in a safe, supportive environment. This session is ideally suited to learners and teachers who want to explore coding principles which use algorithmic design to complete a range of exciting tutorials. Learners and Teachers alike selected tutorials that were of interest and completed multiple levels to achieve certification for completion of the programme.

The project aimed to promote and to provide a foundational coding experience for 100 learners through the Hour of Code.. Additional time was allocated for learners to maximise the opportunity to complete the programme. Additionally, 15 teachers were also included in the programme to ensure that teachers too were afforded the opportunity to experience Coding in practice. Teachers explored the Hour of Code resources as well as the newly launched Microsoft Learn platform.

2. Teachers participation

Despite June being a busy time in the school calendar, 15 teachers found time to participate in the programme. Teachers' experience of the Hour of Code programme was varied, where some excelled and others found difficulty in finishing the tutorial, but eventually all teachers finished and were able to receive their certificates. All teachers were oriented to Microsoft Learn, where teachers were able to see the diverse array of professional development opportunities that were available as just in time learning.



3. Learners participation

Most of the learners had limited experience of digital technologies and the facilitator therefore had to start off the session with background information about Microsoft and other programs that it offers. The facilitator worked with the learners to complete level 3 of the tutorial and by then learners had mastered the basics of using the keyboard and the mouse. Learners were eager and enthusiastic in learning how to code and practicing basic computing skills. Some learners were enthusiastic and completed the game sooner than the others. A total of 105 learners completed their sessions and received their certificates.



4. Challenges

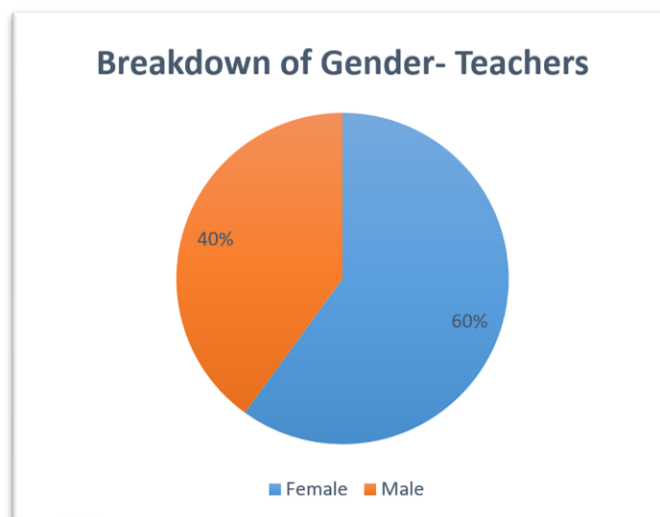
Some learners had limited **computer literacy skills** which required additional time to complete the hour of code. Some learners experienced challenges completing the tutorial, due to longer time needed for thinking about the **tasks** at hand. This was mediated with support and learners were able to continue. **Timing** for teachers was the challenge as more teachers would have participated had it not been for examination preparation at school.

5. Summary of Program Statistics

The program targeted 15 teachers and 100 learners. Below is a description of the targets being met with teachers and surpassed with learners.

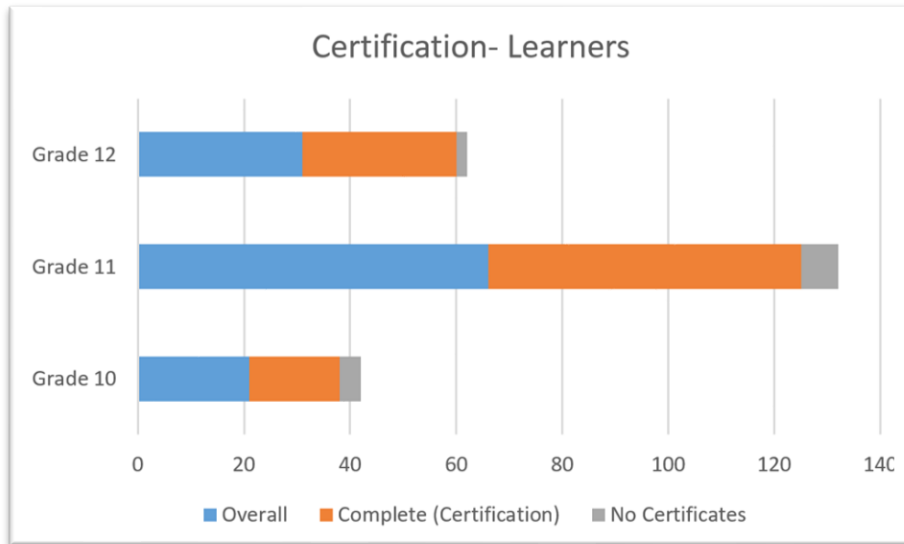
Teacher Data Metrics

The graph below shows the total number of teachers who participated in the sessions. Of the 15 teachers, 60% were females and 40% males. The teacher training was successful as all teachers completed the programme and were awarded with certificates.

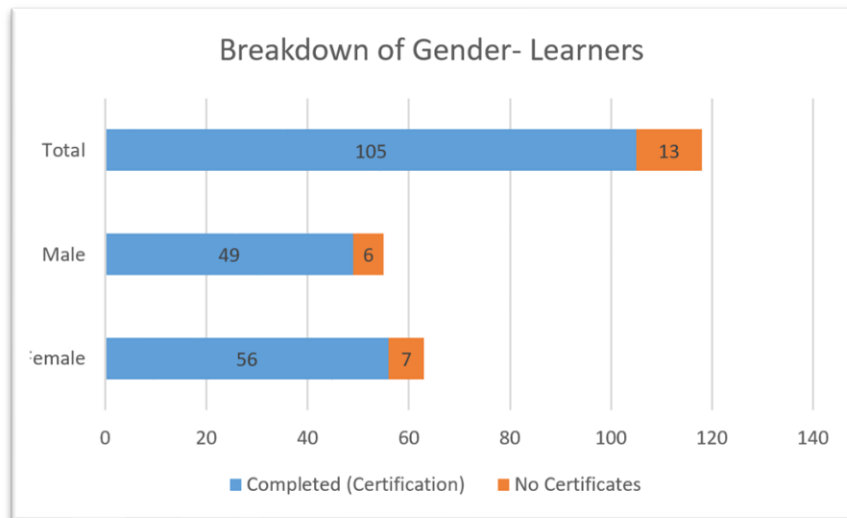


Learner Data Metrics

The training program included 118 learners, however not all learners were able to complete the task. The graph below is a summary of the Grade 10-12 learners that participated in the Hour of Code programme. There were 21 Grade 10 learners, with 17 (81%) successfully achieving certification and 4 who did not. Grade 11's made up the bulk of the group with 66 learners, with 59 (89%) learners completing with certification and 7 who did not. Grade 12 learners also found the sessions useful with 31 learners signing up, with 29 (94%) completing the session with certification and two without.



Of the 118 learners, 63 (53%) were female and 55 male (47%). This is indicative of just a 6% differential in participation which is a good indicator of equity. We have achieved a great success rate of 94% and 95% completion of the programme with 105 learners achieving certification.



6. Conclusion

This training has surpassed our expectations with 15 teachers and 118 learners attending training, with 15 teachers and 105 learners achieving certification. This programme for

teachers and learners was conducted over a week, but the excitement created will last a lifetime. Much appreciation and thanks goes to Microsoft SA for recognising the need and for addressing the call to action in providing basic coding principles for learners and teachers who may otherwise not have had access.

SchoolNet SA

June 2022

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