




Improving Education Data Part 2 – Coordinating Quality Data




The Online Forum Curriculum for Improving Education Data was developed by the National Forum on Education Statistics (the Forum). The Forum is an entity of the National Cooperative Education Statistics System, which was established by the National Center for Education Statistics (NCES).

Publications of the Forum do not undergo the same formal review required for products of NCES. The information and opinions published here are those of the National Forum on Education Statistics and do not necessarily represent the policy or views of the U.S. Department of Education or the National Center for Education Statistics.



Credits

Sponsored by the National Forum on Education Statistics of the National Center for Education Statistics, United States Department of Education, Washington, D.C., and in cooperation with the Central Susquehanna Intermediate Unit, the Council of Chief State School Officers, and the Schools Interoperability Framework Association



Improving Education Data Part 2 – Coordinating Quality Data




Catch Errors Early





Improving Education Data Part 2 – Coordinating Quality Data



Is it an Error?

Name	Birthday
Jason Harryson	06/18/1997
Billy Mayers	03/22/1997
Quay Jessica	12/17/1997
Bruce Huffman Jr.	05/03/1999
Michael	06/25/1997
Little Danny	09/07/1997
Jane	04/26/1997
Stacy	10/08/1997

Improving Education Data Part 2 – Coordinating Quality Data

4

National Forum on Education Statistics




Finding an Authoritative Source




Improving Education Data Part 2 – Coordinating Quality Data

5

National Forum on Education Statistics



Basic Data Validation Steps

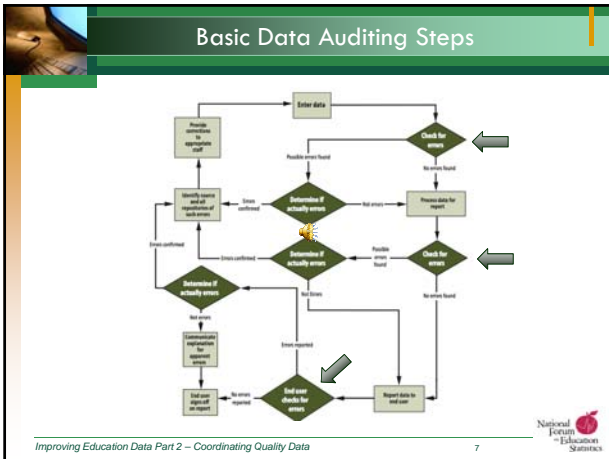
```

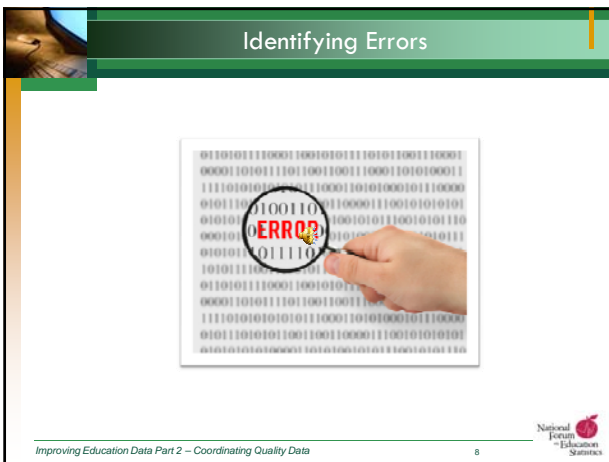
graph TD
    EnterData[Enter data] --> CheckErrors{Check for errors}
    CheckErrors -- "Possible errors found" --> IdentifySource[Identify source and all reporters of each error]
    IdentifySource -- "Errors confirmed" --> ProvideCorrections[Provide corrections to appropriate staff]
    ProvideCorrections --> EnterData
    CheckErrors -- "No errors found" --> NextStep[Next step in data flow]
    IdentifySource -- "Not errors" --> NextStep
    NextStep -- "Repeat as needed" --> CheckErrors
    
```

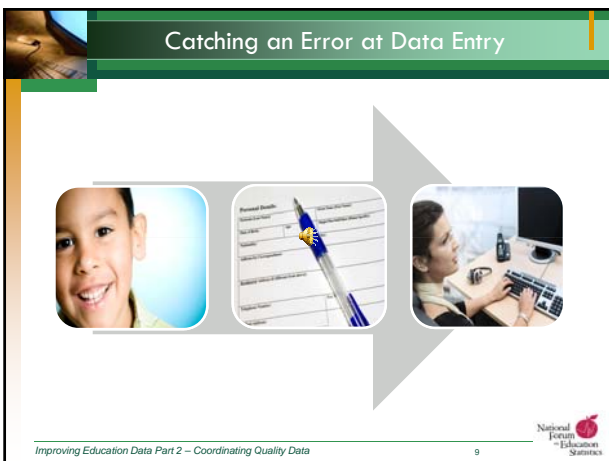
Improving Education Data Part 2 – Coordinating Quality Data

6

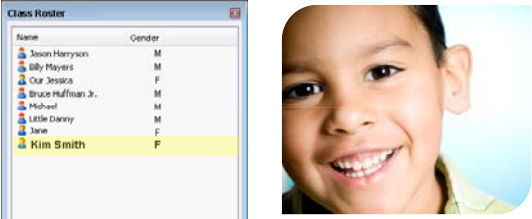
National Forum on Education Statistics







Identifying an Error Later




Improving Education Data Part 2 – Coordinating Quality Data

10

National Forum on Education Statistics

Finding the Error Later Still




Improving Education Data Part 2 – Coordinating Quality Data

11

National Forum on Education Statistics

Correction Effort



Improving Education Data Part 2 – Coordinating Quality Data

12

National Forum on Education Statistics

Two Lessons

1. Correct a mistake at the point of data entry
2. Determine where an error entered the flow of data

Improving Education Data Part 2 – Coordinating Quality Data

13

National Forum on Education Statistics

Detailed Data Auditing Steps

Improving Education Data Part 2 – Coordinating Quality Data

14

National Forum on Education Statistics

Elements of a Data Audit

- ❖ Reports
- ❖ Analysis of report data
- ❖ Identifying anomalies
- ❖ Determining which anomalies are errors
- ❖ Locating sources of errors and correct data
- ❖ Communication of errors
- ❖ Correction
- ❖ Procedure changes, communication of changes

Improving Education Data Part 2 – Coordinating Quality Data

15

National Forum on Education Statistics
