



Andhra Pradesh State Skill Development Corporation



The image is a composite of two parts. On the left, there is a diagram of a Learning Management System (LMS). It features a central computer monitor displaying the 'LMS' logo. Various icons and text labels are connected by lines to different parts of the system: 'courses' (top), 'documentation' (top right), 'tracking' (right), 'e-learning management' (bottom right), 'education' (bottom left), 'management' (bottom center), 'system' (left), and 'software' (top left). On the right, there is a photograph of three individuals (two men and one woman) wearing headsets and working on desktop computers in what appears to be a call center or customer service environment.

Basics of PLC

NO & NC Concept with an example



Binary Logic operations: AND, OR

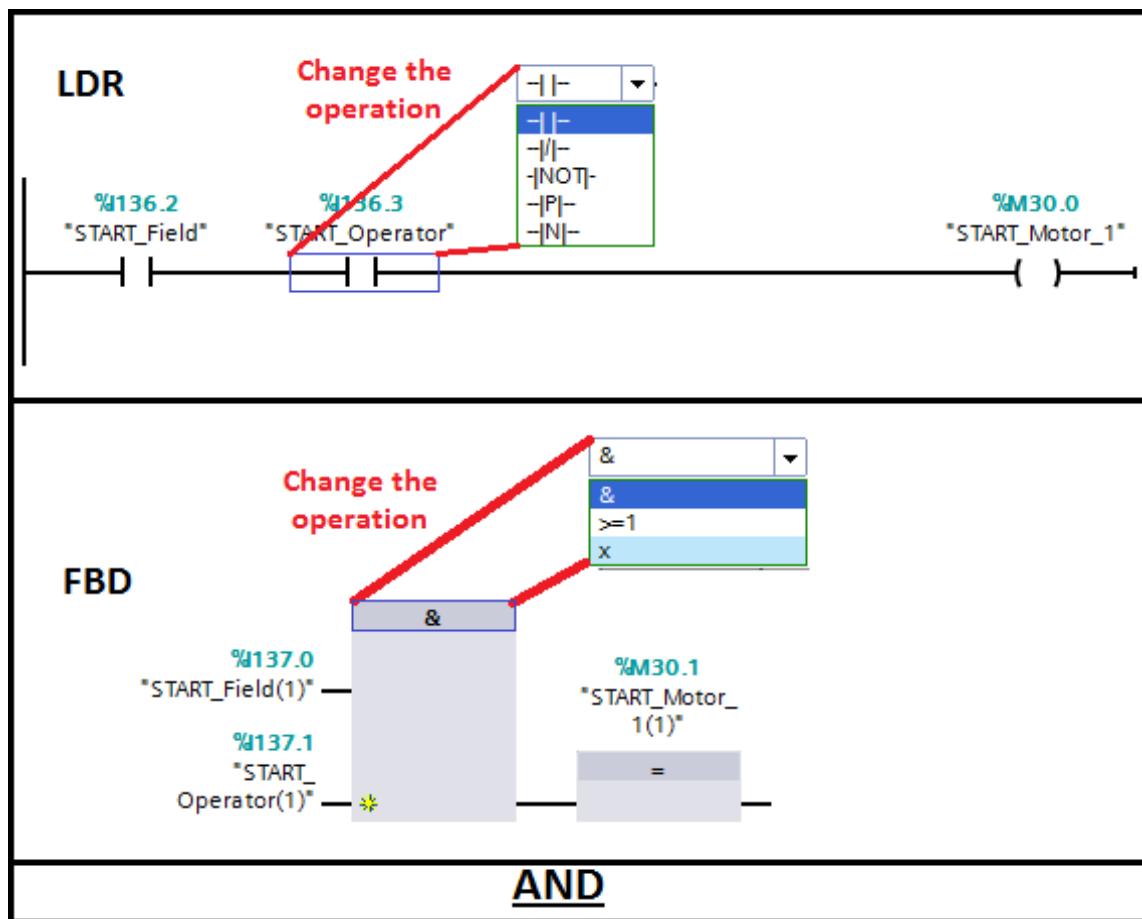
AND and OR logic operations

With the AND and OR logic operations, basically all binary operands can be checked, even outputs. Instead of individual operands, the results of other logic operations can also be further logically linked. Also, the logic operations themselves can be linked.

All inputs of the logic operations can be programmed as check for signal state or Status '0' and '1', regardless of whether a hardware NO contact or NC contact is connected in the process.

AND logic operation

For an AND logic operation, the result of logic operation (RLO) = '1', when **all** input signals have Status '1'.





OR logic operation

For an OR logic operation, the result of logic operation (RLO) = '1', when **at least one** input signal is Status '1'.

