Algorithmic State Machine Charts represent a different format for describing a state machine. They are more of a flowchart.

**Basic Building Blocks**

**State Box and State Label**

The state label is sometimes entered in the state box. Description of what the state represents (in a sequence detector, this might be something like: 001)

In the case of a Moore machine also enter the present output.

**Decision Box**

Represents state transition decision based on a test of circuit input (either single variable or a logic expression). Single input point and two exit points. Separate box for each input.

**Conditional Output Box**

Specifies output associated with state transitions for a given input. Only applies to Mealy machines. Placed in path between decision box and state block.
Two representations for the same state machine