

What is the sign of W_{AC} = work done by E field to move negative charge from A to C?

A)
$$W_{AC} < 0$$
 B) $W_{AC} = 0$ C) $W_{AC} > 0$

A and C are on the same equipotential

 $W_{AC} = 0$

Equipotentials are perpendicular to the *E* field: No work is done along an equipotential