{youtube}zpyb8LJWWyA{/youtube}

This video discusses the acetoacetic ester synthesis reaction mechanism to produced substituted ketone derivatives. This reaction begins with the removal of an alpha hydrogen by sodium ethoxide to produce a resonance stabilized carbanion intermediate. The second step is an SN2 reaction with an alkyl halide to add an R group followed by acid hydrolysis to convert the esters to a carboxylic acid. The last step involves decarboxylation or removal of the carboxylic acid functional group in the form of CO2.

□□□□□ : https://www.youtube.com/channel/UCEWpbFLzoYGPfuWUMFPSaoA

□□□□□□□□□□ The Organic Chemistry Tutor