

MECHANICS - STUDY PROGRAMME

AUTOMOTIVE & LAND-BASED TECHNOLOGY

Thank you for applying for a place to study at Craven College in September 2020. To give you a head start, our tutors have created a list of resources and activities to help you prepare for your course.

READING MATERIALS (BOOKS, MAGAZINES AND NEWSLETTERS)

AUTOMOTIVE

Hilliers Fundamentals of Motor Vehicle
Technology

Hillier Fundamentals Of Automotive Electronics

LAND-BASED

Hilliers Fundamentals of Motor Vehicle

Technology (Motor vehicle based, good for basic mechanical theory)

Farmers Guardian

Farmers Weekly

SOCIAL MEDIA ACCOUNTS TO FOLLOW

AUTOMOTIVE

Twitter & Instagram:

Autosport

Mercedes

AMG

F1

Facebook: <https://www.facebook.com/groups/168207094495032/>

LAND-BASED

<https://www.facebook.com/masseyfergusonuk>

<https://www.facebook.com/CaseAndNewHolland/>

<https://www.facebook.com/KUHN.Group/>

Komatsu Forest Ltd UK - <https://www.facebook.com/komatsuforestltd/>

WEBSITES

AUTOMOTIVE

Mechanic Steve's videos

<https://www.youtube.com/channel/UC6kvdXznq0lusTRfabF5gJg/videos>

Eric the Car Guy

https://www.youtube.com/results?search_query=eric+the+car+guy

LAND-BASED

<https://www.deere.co.uk/en/agriculture/>

<http://www.masseyferguson.co.uk/>

<https://www.agcocorp.com/>

<https://www.teagle.co.uk/>

<https://www.cnhindustrial.com/>

WORK EXPERIENCE LINKS

Work related learning is used to promote students understanding of the industries requirements.

LAND-BASED

B&W Plant services

Townson tractors

Guys Machinery

Ripon Farm services

PV Dobson

Buntons plant hire

ACTIVITY - PLEASE COMPLETE THIS BY FRIDAY 26 JUNE

AUTOMOTIVE

Pick a four cylinder petrol engine and investigate the correct sequence to replace a cylinder head gasket.

- You must include removing of components such as Cooling system, timing belts, manifolds and electrical components.
- Describe the replacement of one use components, these include gaskets, oil seals, head bolts if required.
- When refitting what requires data to insure correct operation of components ie. Torques, sequencing of bolts? Timing of camshaft an liquids (oil and coolant).

LAND-BASED

Pick a four cylinder diesel engine and investigate the correct operation to replace a cylinder head gasket.

- You must include remove and refit of components eg - Cooling system, rocker shaft , push rods , manifolds and electrical components.
- Describe the replacement of one use components, include gaskets, oil seals, head bolts if required.
- When refitting what data is required to ensure correct operation of components ie. Torques, tightening sequence of bolts? Valve clearances and liquids (oil and coolant).

APPLICANTS

Please complete this activity by **Friday 26 June** where you will present the results of the activity at our Future Student Morning.

The Future Student Morning will be delivered as a virtual event where your course area tutor will give you an online webinar, you will shortly receive an email with a link to sign up for this event.

If you have applied for a course starting September 2020, it is essential for you to sign up for this event as you will receive information about your course, enrolment and key dates.

Further details can be found at www.craven-college.ac.uk/events.

If you can't attend the event, please email marketing@craven-college.ac.uk with your name and the subject area you have chosen to study and we will arrange for your tutor to contact you.

Finally, don't forget to join the Mechanics Department Facebook Group to keep up to date with everything related to your course:

<https://www.facebook.com/groups/168207094495032/>