

MECHANICAL DESIGN ENGINEER CAREER PATHWAY



Mechanical Design Engineer Career Pathway

BEFORE GRADUATION

Milestone 1



Accomplishment: Engineering course EGN 1003 - Engineering Workshop and Solid Modeling [Year 1 – Semester 1]
Details: Part of Bachelor of Mechanical Engineering (BMCE), Aeronautical Engineering Technology (BAET) and Mechatronics Engineering Technology (BMET) Programs, using the licensed software SolidWorks™.

Outcome: Certified SolidWorks - Associate (CSWA) Body of Knowledge 100% covered.



Milestone 2



Outcome: Certified SolidWorks - Associate (CSWA) Certificate - HCT Level 2



Accomplishment: Certified SolidWorks - Associate (CSWA) Certificate
Details: The CSWA certification is proof of students' SOLIDWORKS expertise with cutting-edge skills that businesses seek out and reward. This is a 3-hour proctored exam, which features hands-on challenges in many of the areas of design mainly in 3D Modeling and Assembly



AFTER GRADUATION

Milestone 3



Outcome: Certified SolidWorks - Professional (CSWP) CERTIFICATE - HCT Level 3



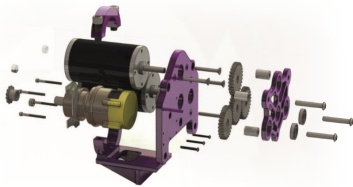
Accomplishment: HCT e-Portfolio ongoing development (Pilot)
Details: CERT Mentorship Services to help with career decisions that directly contribute to accruing experience required to do the Certified SolidWorks- Professional (CSWP) exam



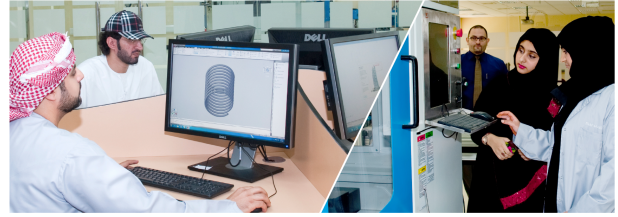
Milestone 4

Accomplishment: Certified SolidWorks - Expert
Details: Necessary skill to become a "Certified SolidWorks – Expert", which can be achieved through the work experience as a Mechanical Design Engineer

Outcome: Certified SolidWorks Expert (CSWE) CERTIFICATE - HCT Level 4.



Mechanical Design Engineer Career Pathway



MORE OPPORTUNITIES

1. Professional certificate from a recognized body such as SolidWorks™ will give our students an advantage over other students having only an academic degree in Mechanical/Mechatronics/Aeronautics Engineering Technology programs.
2. Advanced career potential due to recognition as a certified SolidWorks™ practitioner.
3. Once certified, Student will be awarded with a certificate with a digital badge with lifelong validity and student's name can be put into a searchable registry of Certified Users of SolidWorks™ for the whole world to see.



HCT PROFESSIONAL CERTIFICATIONS/QUALIFICATIONS LEVELS

- | | |
|--------------------|---|
| HCT Level 1 | Certificate from Professional Body accrediting the Body of Knowledge covered as part of the aligned HCT Course(s) and/or Assessment(s). |
| HCT Level 2 | Certificate from Professional Body accrediting the accomplishment of external Assessment(s), as part of the aligned HCT Course(s) Assessment(s) Strategy. |
| HCT Level 3 | Certificate from Professional Body accrediting the accomplishment of external Assessment(s), following additional Course(s) to HCT Curriculum. |
| HCT Level 4 | Certificate from Professional Body accrediting obtaining Professional status in the field through experience. |

