



Engineering BTEC: Developing Cultural Capital, Diversity and Equality

Cultural capital is the accumulation of knowledge, behaviours, and skills that a student can draw upon and which demonstrates their cultural awareness, knowledge, and competence; it is one of the key ingredients a student will draw upon to be successful in a diverse society, their career and the world of work. In the Sixth Form, we aim to build our student aspirations and expose them to a range of experiences to help them achieve goals and become successful individuals who understand and support diversity and equality.

We recognise that for students to aspire and be successful academically and in the wider areas of their lives, they need to be given diverse, rich, and sustained opportunities to develop their cultural capital. We do this in many ways, for example, through our curriculum, extra-curricular activities, trips and visits, careers activities, and PSHE/RSE programme.

There are nine key realms to cultural capital in the Sixth Form at Samuel Whitbread Academy:

Cultural Capital
provides health,
well-being and
growth



Cultural Capital
lets us share our
histories, our memories,
the people, the places
and the things that
matter to us.



Cultural Capital
creates the curiosity and
confidence to make
connections between
the past, the present and
the future.



Cultural Capital
sparks generations of
innovators.



Cultural Capital
is to be found locally,
nationally, globally -
everywhere.



Cultural Capital
nurtures inclusive
communities.





Cultural Capital
enriches today and
inspires tomorrow.



Cultural Capital
is ours to discover,
ours to create,
ours to share.



Cultural Capital
belongs to me,
belongs to you,
belongs to us all.



These nine realms can be broken down further into the following sub-categories: **Personal development, Social development (including political and current affairs awareness), physical development, spiritual development, moral development, and cultural development.**

What is now outlined are the key areas of both academic and enrichment that take place within and outside of this course area to enhance and develop these diverse elements of cultural capital:

Personal Development:

Personal development consists of activities that develop a person's capabilities and potential, build human capital, facilitate employability, and enhance the quality of life and the realisation of dreams and aspirations.

Element of the curriculum and/or enrichment
. When studying BTEC Level 3 Engineering the students have opportunities to build relationships and work in teams, which mimics real life scenario's working through human factor scenarios which solve problems. The key aim of our relationship and team building, is that regardless of race, gender, age or any other factor as humans we all can use personal development and feedback. Which is built into the course with elements such as testing against specifications and client requirements. With the overall goal of using mistake making as part of the learning process and learning to improve moving forward.



Social Development:

The process by which a child learns to interact with others around them. As they develop and perceive their own individuality within their community, they also gain skills to communicate with other people and process their actions.

Element of the curriculum and/or enrichment

Our workshop team element that exists as one of our units "Engineering processes safely as a team", aims to teach the students how to communicate effectively via the use of team meetings and evaluative feedback. Each student takes the task of 'manager', for an individual part of the product, therefore each of the students have an opportunity to A) give feedback to other workers & B) to also receive feedback from the 'manager'.

The social goal is to teach to the students how to give effective feedback and constructive to improve and get better at workshop skills.

Physical Development:

These are the major motor or physical achievements a student enhances and develops. Physical development is a vital part of growing up as students learn to master control of their body

Element of the curriculum and/or enrichment

BTEC level 3 Engineering teaches two workshop units; Unit 2: Delivery of engineering processes safely as a team & Unit 44: Advanced Fabrication techniques. Both units make use of very tight tolerances in terms of making products +/- 0.5mm being the tightest.

This promotes the students to improve their hand eye coordination skills and craftsmanship within the workshop environment. Students will learn skills such as marking out, cutting with saws and shears. Joining processes which include brazing and welding.

Moral Development:

The development of attitudes and behaviours toward other people in society, based on social and cultural norms, rules, and laws.

Element of the curriculum and/or enrichment

BTEC Engineering improves the moral capital by enforcing students to follow British Standards 4163 Health and safety whilst



working in the workshop environment, the students have a moral obligation to keep themselves and others around them safe. To keep their workspaces safe and leave the environment in a safe manner once work is completed.