

**Work Attachment Learning Objectives
for Business Analytics Programme**
(effective for students matriculated from year 2019 onwards)

1. Introduction

Work Attachment (WA) is an experiential learning opportunity for students to enhance their employment readiness and employability through a supervised work placement with a Host Organisation (HO) in Singapore or overseas.

Students are encouraged to take on WA opportunities relevant to their study disciplines or alternative pathways to gain valuable real-life work experiences and build up their interdisciplinary skills and competencies. SUSS students may refer to the WA Guidelines in the Kinobi@SUSS.

Students may be assigned multidisciplinary tasks and cross-functional projects. Where appropriate, students may seek the approval from Head of CDO for any reasonable departure from their WA approved job functions.

2. Learning Outcomes

Students are encouraged to take on work assignments that build on their programme-based knowledge and skills and competencies from the SkillsFuture Framework ([SSG | Skills Framework \(skillsfuture.gov.sg\)](http://skillsfuture.gov.sg)).

(A) Programme-Specific Learning Outcomes

Students are expected to carry out their WA in functional areas directly relevant to their enrolled field of study. For Business Analytics students, the functional areas are according to the CRoss-Industry Standard Process for Data Mining (CRISP-DM) framework.

CRISP-DM allows data mining practitioners to follow a systematic process in generating an analytics solution that is well understood, planned, executed and documented.

It consists of the following six phases:

- i. Business Understanding
- ii. Data Understanding
- iii. Data Preparation
- iv. Modelling
- v. Evaluation
- vi. Deployment

To make the most of the practical and experiential nature of WA, students are encouraged to take on tasks that are at least in one of the phases.

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The following set of learning outcomes aims at providing students with the opportunity to observe and apply broad-based business analytics skills and concepts in real work-related contexts.

- i. Analyse data to support management decisions by corporate or project managers: the extent to which the student is able to understand operational activities of the organisation and carry out analysis to support and enhance their business operations.
- ii. Use information technology, databases, published and organisation's information to support analysis on, development of and/or research on company operations, financial products, services, markets, and the industrial and economic environment: the extent to which the student is able to gather and use public and private information to generate suitable reports for decision making.
- iii. Implement and support business operations and processes.
- iv. Apply analytics models and software applications for information retrieval, storage, analysis, visualization and/or communication: the extent to which the student is able to use models and software to analyse and communicate information.

Please refer to the Skills Framework ([SSG | Skills Framework \(skillsfuture.gov.sg\)](#)) for an overview of the relevant occupation/job role description, skills requirement, and career pathways.

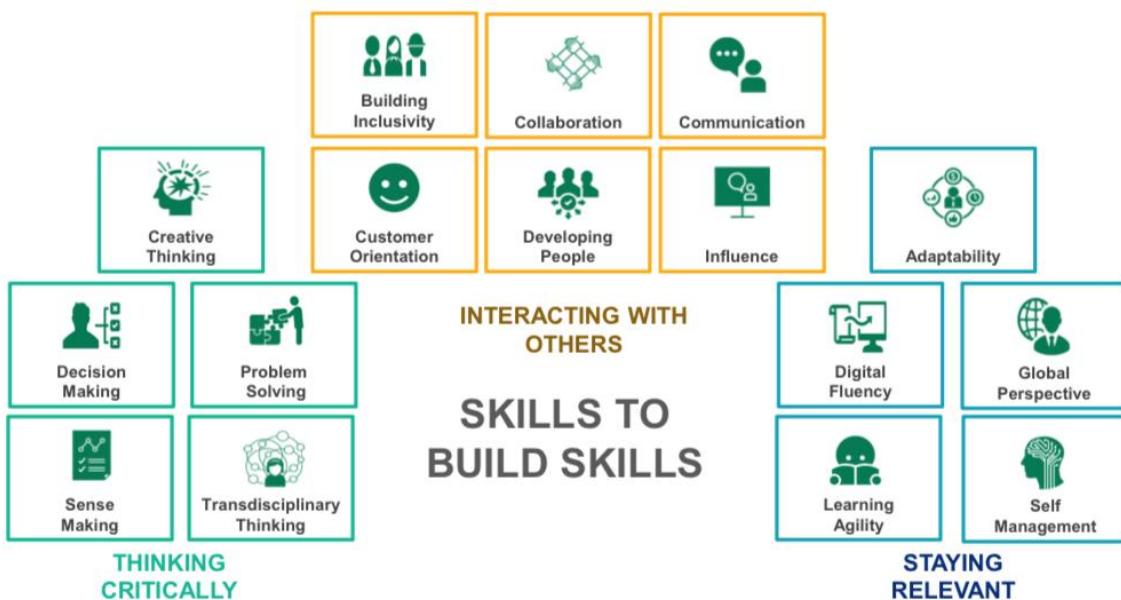
(B) Generic Learning Outcomes

The generic learning outcomes are aligned to the SkillsFuture Framework's critical core skills (CCS): [SSG | Critical Core Skills \(skillsfuture.gov.sg\)](#).

Students are strongly encouraged to develop these CCS (16 competencies; grouped into 3 clusters) that are most relevant to their specific roles during WA. The CCS are transferable and they serve to enhance students' employability.

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Critical Core Skills (CCS)



SKILLS *future* SG

Particular emphasis will be placed on:

- **Mindset and Attitude:** The student is able to commit and embrace his/her responsibilities and assigned projects with positivity, self-initiative, and curiosity.
- **Experiential Learning:** Through journaling and reflection, the student is able to apply knowledge and competencies acquired effectively to the execution of work projects, processes, and responsibilities.
- **Critical Thinking Competencies:** The student is able to apply transdisciplinary thought process sensibly towards creative problem solving and decision making during their learning journey.
- **Interpersonal Competencies:** The student is able to inclusively collaborate, influence, and communicate within the diversity of their assigned teams to achieve optimal client satisfaction as well as collegial development amongst team members.

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- **Staying Relevant:** The student is empowered with self-management skills and learning agility to embrace global perspectives and digital literacy to remain relevant despite rapidly changing industry landscapes.