

Certifications:

Date (sorted)	Title/Fees	Description
Ongoing	VMWare Self-Paced Micro-Courses	<p>Free VMWare Self-Paced Micro-Courses</p> <ol style="list-style-type: none"> I. Cloud and Virtualization Concepts (8 hours) II. Software-Defined Storage Concepts (8 hours) III. Network Virtualization Concepts (8 hours)
<p>Now</p> <p>- 4 Nov</p> <p>Estimated Effort:</p> <p>5 days + Exams</p>	<p>Acquia Certified Drupal 8 Site Builder</p> <p>Fees:</p> <p>US\$155</p> <p>20 complimentary exam vouchers meets the requirements*</p>	<p>For:</p> <p>Students interested in learning to use Drupal, the free and Open Source Content Management System (CMS) to maintain and publish an internet website</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> - Background in PHP programming language - Basic understanding of website (HTML, CSS) <p>Min size: 10 (the program will run only with min size)</p> <p>Max size: 20</p> <p>About Acquia:</p> <p>Acquia is an open digital experience company. We provide the world’s most ambitious brands with technology that allows them to embrace innovation and create customer moments that matter. At Acquia, we believe in the power of community—giving our customers the freedom to build tomorrow on their terms. To learn more, visit acquia.com.</p> <p>Syllabus Details:</p> <p>This certification allows you to work competently and confidently with Drupal - the mission of Acquia’s certification program. Our certifications are the trusted benchmark for validating and promoting your expertise. Thousands of developers from around the world have participated in the program since its launch in 2014.</p> <p>Refer to the full details here</p> <p>Participation process:</p> <p>*You have to attend all the workshops in order to qualify for the complimentary certification.</p> <ol style="list-style-type: none"> 1. Sign up to participate in this training program. During registration, you *MUST* use your SMU student email and input SMU as the company. <p>Registrations failing to do so will be ignored.</p>

		<p>2. Attend all instructor-led training workshop*:</p> <ul style="list-style-type: none"> ○ Drupal Jumpstart Workshop 6 Oct 2020, 1pm - 4:30pm ○ Drupal Workshop 2 20 Oct 2020, 2:30pm - 6pm ○ Drupal exam preparation workshop 30 Oct 2020, 3:30pm to 5pm <p>* if you have classes that clash with this timing, you can still complete this requirement by going through the videos for the respective session. You have to have an official reason(s) to use this option.</p> <p>3. Once you've completed the Drupal Workshop 2, Acquia will send out the exam voucher code for you to register for the online exam by 25 Oct. You will be required to complete the Drupal Exam by 4 Nov.</p> <p>Ongoing support: Online self-learning materials</p> <ul style="list-style-type: none"> - Acquia Certified Site Builder Exam - Acquia Certification Exam Preparation - Study Guides for Acquia Certification Exams - Study Guide: Acquia Certified Drupal 8 Site Builder Exam - Study Guide: Acquia Certified Drupal 8 Site Builder <p>Support during your self-learning</p> <ul style="list-style-type: none"> - Acquia Drupal 8 Basic Course - Acquia Drupal 8 Site builder Course <p>Materials & Information:</p> <ul style="list-style-type: none"> - Drupal User Guide
<p>Now - 7 Jun [Pending renewal for next round!]</p> <p>Estimated Effort: 5 days + 2 days + Exams</p>	<p>MuleSoft Certified Developer</p> <p>Fees: US\$250 20 free exam vouchers for first 20 students*</p>	<p>For: Students interested in learning to build API based solutions.</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> - Experience with an object-oriented language - A basic understanding of data formats such as XML, CSV, and JSON - A basic understanding of typical integration technologies such as HTTP, JMS, JDBC, REST, and SOAP <p>Max class size:</p> <ul style="list-style-type: none"> - Any numbers can complete Part 1. - Only the first 20 who have completed Part 1 is entitled to the free exam voucher <p>About Mulesoft: MuleSoft is the world's #1 integration and API platform - We are the only company that's named a Leader in both the Gartner Magic Quadrant for Enterprise iPaaS and the Magic Quadrant for Full Life Cycle API Management.</p>

MuleSoft related skills are sought after in Singapore and Asia.

Syllabus Details:

This certification is for developers and architects who want to get hands-on experience using Anypoint Platform to build APIs and integrations. You will use Anypoint Platform discover, consume, design, build, deploy, manage, and govern APIs as well as using Mule and Anypoint Studio to build applications for use as API implementations and integrations.

Refer to the full details [here](#).

***Instructions to sign up**

Part I - Prerequisite to qualify for free exam voucher

1. Sign up for a training account with Mulesoft.U and register for **MuleSoft.U Development Fundamentals (Mule 4)** course
Link: [MuleSoft.U Development Fundamentals \(Mule 4\) - MuleSoft](#)

During registration, you ***MUST*** use your SMU student email and input SMU as the company. Registrations failing to do so will be ignored.

2. Mulesoft will send out the invitation for you to sign up for the half-day **Getting Started Workshop**(instructor-led, online).
3. Learn with the self-paced **MuleSoft.U Development Fundamentals (Mule 4)** training and concurrently attend the Instructor Lecture Series (optional, instructor-led, online).
4. Once you have completed the **MuleSoft.U Development Fundamentals (Mule 4)** training (or at least 95%), MuleSoft will send out the invite for the Developer Exam Readiness Workshop.
5. While waiting for the **Exam Readiness workshop** (instructor-led, online), you should concurrently attempt the Quiz & DIY Exercises

Part II - On completion of the above **by 7 Jun, limited to the first 20 student**

1. **Mulesoft** will send out the exam voucher number for you to register for the online exam date/time.
2. You will attempt the **Certification Exam** online on the selected date.

You need to complete all the steps **by 30 Jun.**

Materials & Information

- [Anypoint Platform Development: Fundamentals Setup Requirements](#)
- [Anypoint Platform Development: Fundamentals course description](#)
- [MuleSoft Certified Developer – Level 1 \(Mule 4\) certification](#)

Past courses:

Date (sorted)	Title/Fees	Description								
<p>21 & 28 Nov 5 & 12 Dec</p> <p>11.00am- 1.00pm @Online</p>	<p>Dashboard Specialist</p> <p>Fees: Free</p>	<p>For: Are you new to data visualization and building dashboards? Have you been wanting to learn more on data preparation? Join She Loves Data, Singapore Management University and TIBCO to earn your Dashboard Specialist Badge in a series of training modules geared to help you stay professionally competitive in today’s tough job market.</p> <p>This new program offers you the opportunity to apply for the paid Dashboard Specialist Badge to add to your CV and Profile.</p> <p>Prerequisites: None</p> <p>Max class size: 50</p> <p>Instructor: Prof Rafael J. Barros</p> <p>Dates: Via Microsoft Teams from 11:00-13:00 – Sessions will be recorded</p> <table border="1" data-bbox="501 1160 1244 2222"> <tbody> <tr> <td data-bbox="501 1160 616 1370">21/11</td> <td data-bbox="616 1160 1244 1370"> <p>Module 1: Dashboard exploration as an end user. Marking and Filtering concepts In this session you will explore dashboards from the viewpoint of your audience, the end user. Presentation is everything!</p> </td> </tr> <tr> <td data-bbox="501 1370 616 1722">28/11</td> <td data-bbox="616 1370 1244 1722"> <p>Module 2: Asking the right questions by understanding what data is important to answer the analytical business requirements. Foundations of charts and basic visualizations. This session will help you understand that sometimes it is necessary to translate business questions into concrete analytical questions and how to choose the charts to help you visualize data.</p> </td> </tr> <tr> <td data-bbox="501 1722 616 1933">05/12</td> <td data-bbox="616 1722 1244 1933"> <p>Module 3: Basic in Data cleaning, advanced visualizations, and connecting to multiple data sources Data usually has some issues... learn how to tidy it in order to be able to use it.</p> </td> </tr> <tr> <td data-bbox="501 1933 616 2222">12/12</td> <td data-bbox="616 1933 1244 2222"> <p>Module 4: Designing the dashboard for end-user consumption. Lea What will be the best design for my dashboard? Is the information displayed correctly? Do the right please have access to it? Windows operating system is highly recommended for this session.</p> </td> </tr> </tbody> </table>	21/11	<p>Module 1: Dashboard exploration as an end user. Marking and Filtering concepts In this session you will explore dashboards from the viewpoint of your audience, the end user. Presentation is everything!</p>	28/11	<p>Module 2: Asking the right questions by understanding what data is important to answer the analytical business requirements. Foundations of charts and basic visualizations. This session will help you understand that sometimes it is necessary to translate business questions into concrete analytical questions and how to choose the charts to help you visualize data.</p>	05/12	<p>Module 3: Basic in Data cleaning, advanced visualizations, and connecting to multiple data sources Data usually has some issues... learn how to tidy it in order to be able to use it.</p>	12/12	<p>Module 4: Designing the dashboard for end-user consumption. Lea What will be the best design for my dashboard? Is the information displayed correctly? Do the right please have access to it? Windows operating system is highly recommended for this session.</p>
21/11	<p>Module 1: Dashboard exploration as an end user. Marking and Filtering concepts In this session you will explore dashboards from the viewpoint of your audience, the end user. Presentation is everything!</p>									
28/11	<p>Module 2: Asking the right questions by understanding what data is important to answer the analytical business requirements. Foundations of charts and basic visualizations. This session will help you understand that sometimes it is necessary to translate business questions into concrete analytical questions and how to choose the charts to help you visualize data.</p>									
05/12	<p>Module 3: Basic in Data cleaning, advanced visualizations, and connecting to multiple data sources Data usually has some issues... learn how to tidy it in order to be able to use it.</p>									
12/12	<p>Module 4: Designing the dashboard for end-user consumption. Lea What will be the best design for my dashboard? Is the information displayed correctly? Do the right please have access to it? Windows operating system is highly recommended for this session.</p>									

		<p>Program Overview: The creation of Dashboards to communicate and visualise data and therefore business insights have become an important part in almost every industry sector. Whether they are produced for sales, marketing, finance or executive teams, they allow even non-technical users to participate and understand the analytics process by compiling data and visualizing trends and occurrences. This program will provide you with the right techniques to successfully design, develop and deploy dashboards, enhancing your core competencies to ensure your skills are as relevant to today's market as they could be.</p> <p>During the program you will learn to develop and create dashboards using TIBCO Spotfire and each attendee will receive a free 1 year-license to TIBCO Spotfire (subscription value \$1250) to use after you have completed the course. She Loves Data reserves the rights to cancel the subscription if the account has no activity for 60 consecutive days.</p> <p>You do not have to have any prior experience creating dashboards, however, we do need you to have worked with spreadsheets such as Excel or Google Sheets.</p> <p>Classes will be delivered online so you will need a stable internet connection and a laptop or computer. This course is open to all genders.</p> <p>Participation in the workshops and completion of the assignments will earn you Participation Points towards the paid Dashboard Specialist Badge:</p> <ul style="list-style-type: none"> ● 900+ with distinction (Platinum) ● 600+ dashboard Specialist
<p>5 Oct 11 - 12pm @Online</p>	<p>Introduction to Drupal & Drupal Certification</p> <p>Fees: Free</p>	<p>For: This short workshop will introduce you to Drupal and the skills needed to start your career at the highest level with an industry-leading certification - or for your next project / future internship.</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> - Background in PHP programming language - Basic understanding of website (HTML, CSS) <p>Min class size: 10 (the class will run only with min size) Max class size: 80</p> <p>Instructor:</p> <ul style="list-style-type: none"> - Tony Peters, Senior Solutions Consultant (Asia), Acquia - Jim Chua, Senior Manager, Web & Media Technologies, SMU <p>Syllabus Details: Join us for a 40-min session to learn more about how Drupal is being used in the marketplace and how you can benefit from getting Drupal Certified!</p> <p>You will hear from the 1st Drupal 8 Grandmaster in</p>

		<p>Singapore, SMU's very own Jim Chua.</p> <p>Here are key benefits of the program:</p> <ul style="list-style-type: none"> - Provides you with a formal certification - Validates your Drupal skills and knowledge - Gives you more visibility within the marketplace - Establishes your credibility and expertise with your peers
<p>12 Aug 7.30 - 9.30pm @Online</p> <p>Class is full</p>	<p>Intro to digital marketing</p> <p>Fees: Free</p>	<p>For: This course will introduce you to the fundamental concepts of digital marketing and the tools to apply digital marketing strategies effectively for your future product or venture.</p> <p>Prerequisites: None</p> <p>Min class size: 15 (the class will run only with min size) Max class size: 30</p> <p>Instructor: Daniel Buenas</p> <p>About Daniel: Daniel currently leads Strategy and Operations in APAC for Google's staffing teams, and was previously head of competitive and market intelligence for APAC at Google. Prior to joining Google, Daniel spent over a decade in corporate strategy, internal consulting and media strategy/analytics roles at Singapore Press Holdings, Southeast Asia's largest media conglomerate.</p> <p>Daniel holds undergraduate degrees in computer science and management from Seattle University, and an MBA from the University of Cambridge.</p> <p>Syllabus Details: Join us for a 2-hour session to learn more about what digital marketing is and why it's essential in today's digital landscape.</p> <p>At the end of the session, students would be exposed to:</p> <p>The basic principles of marketing and the evolution of digital</p> <ol style="list-style-type: none"> 1. Key digital marketing concepts 2. Real life digital marketing examples 3. Resources to learn more about this dynamic and ever-changing field
<p>29 Jul 9.00 - 1.00pm @Online</p>	<p>FISCO BCOS Blockchain Experience WeBank Workshop</p> <p>Fees: \$10.70</p>	<p>For: Anyone interested in understanding blockchains.</p> <p>Prerequisites: Familiarity with Linux command line.</p> <p>Min class size: 10 (the class will run only with min size) Max class size: 80</p> <p>Instructor: Paul GRIFFIN and WeBank instructor</p> <p>Online: The course will be held online from WeBank BCOS experts. You will need to bring your own computer and be able to access the Internet with a browser and use copy-paste to</p>

		<p>execute commands in a Linux operation system to access a prepared experimental environment.</p> <p>Syllabus Details: Gain the basic knowledge of FISCO BCOS and its open source community, and be inspired by the success stories of establishing real-world large-scale applications for collaborative business on FISCO BCOS blockchain infrastructure. Understand the key concepts and design principles of blockchain systems and obtain WeBASE (WeBank Blockchain Application Software Extension) hands-on experience of installing FISCO BCOS, maintaining FISCO BCOS, contract usage of editing, deploying invoking and monitoring FISCO BCOS system and transaction etc.</p>
<p>22 Jul 9.00 - 5.00pm @TBC</p> <p>[Cancelled]</p>	<p>Stress Management with Technology</p> <p>Fees: \$10.70</p>	<p>For: Everyone</p> <p>Prerequisites: None</p> <p>Min class size: 10 (the class will run only with min size) Max class size: 30</p> <p>Instructor: Paul GRIFFIN</p> <p>Syllabus Details: Learn about stress, the impact of stress and how to manage stress using technology. There will be hands-on sessions using biofeedback devices from industry experts.</p>
<p>1 Jul 9.00 - 5.00pm @Online</p> <p>[To go ahead and converted to online course]</p>	<p>Quantum Leap</p> <p>Fees: Free</p>	<p>For: Anyone interested in quantum computing</p> <p>Prerequisites: Some Python programming and some knowledge of logic bits and gates.</p> <p>Min class size: 5 (the class will run only with min size) Max class size: 30</p> <p>Instructor: Paul GRIFFIN</p> <p>Syllabus Details: Quantum computing is now being realised at an ever-increasing pace. “Quantum advantage” has already been shown and the underlying technology continues to advance every week. The overall objective of the course is to understand quantum computing, how it differs from classical computing and what the main applications are, now and in the future. Furthermore, you can experience programming real quantum computers and explore the quantum world.</p>
<p>26 - 28 May 9.30 to 5.30pm @Online</p>	<p>Data Analysis with Python</p> <p>Fees: Free</p>	<p>For: For undergraduate students interested in Data Analytics and Data Science related courses which use Python Programming Language.</p> <p>Prerequisites: Students must have completed the Introduction to Programming course IS111</p> <p>Min class size: 15 (the class will run only with min size)</p>

		<p>Max class size: 40</p> <p>Instructors: Joelle & Meenakshi (a.k.a. Meena)</p> <p>Syllabus Details: In this course, students will learn the key Python libraries for exploring and manipulating real world data. They will get hands-on experience on applying all the steps required for an end-to end process starting with reading data to exploring and deriving meaningful insights. The students will also learn how to visualise data using basic Python plotting functions. The concepts will be applied to solve a case study on real world dataset. Finally we will introduce the popular data collection method of Web Scraping in Python.</p> <p>Workshop Agenda:</p> <p><u>Day 1</u></p> <ul style="list-style-type: none"> - Numpy - Pandas Series and DataFrames - Numerical and categorical data types - Data Visualization <p><u>Day 2</u></p> <ul style="list-style-type: none"> - How to clean data (E.g missing data, erroneous data) - Group-by and Pivot - One hot encoding - Statistics functions - Combining datasets using merge functions <p><u>Day 3</u></p> <ul style="list-style-type: none"> - Case-study : Apply all concepts on an open dataset from Kaggle or similar sources to perform data analysis and derive meaningful insights - Introduction to Web Scraping
--	--	---

<p>5 - 6 May 9.30 to 5.00pm @TBC [Converted to online course with 2 sessions 1. 5th May 2. 6th May]</p>	<p>Big Data Analytics with kdb+</p> <p>Fees: \$21.40 Free</p>	<p>For: Students interested in big data and using the kdb+ technology for ultra-high-speed processing of real-time, streaming and historical data.</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> - Keen interest in big data - Prior academic or professional experience with any programming language, i.e. Java, R, Python, Matlab <p>Min class size: 15 (the class will run only with min size) Max class size: 30</p> <p>Instructor: Mr Eamonn McKernan and Mr Samuel Hutchinson</p> <p>About Kx: Kx is a global provider with 20 years of experience working with some of the world’s largest finance, technology retail, pharma, manufacturing and energy institutions. Kx technology, incorporating the kdb+ time series database, is a leader in high-performance, in-memory computing, streaming analytics and operational intelligence. Kx delivers the best possible performance and flexibility for high-volume, data-intensive analytics and applications</p>
--	--	---

		<p>across multiple industries.</p> <p>Syllabus Details: Join us for a 2-day session to learn more about the power Kx technology, together with understanding what Big Data is all about!</p> <p>Day 1 involves us looking into what exactly is Big Data and what does this mean for all of us. The workshop kicks off with the fundamentals around the powerful kdb+ and delves deeper into its applications in machine learning! There will also be a teaser into building an end-to-end kdb+ application by pulling real-time cryptocurrency futures data from one of our key clients.</p> <p>Day 2 is the time for us to get our hands dirty! We will continue learning more about the kdb+ technology before working through a data science example and group exercise using real-life industry data. Students are also encouraged to bring their own datasets so that we can work through it together to discover unique insights using kdb+.</p> <p>At the end of both days, students will receive a complementary Kx certification stipulating his/her completion of the introductory kdb+ Level 1 course including kdb+ concepts, programming and data mining techniques. Given our diversified client pool across institutions such as NASA, Red Bull Racing and closer to home, SGX, GIC and Standard Chartered, we encourage students to include this on their resumes for increased visibility during job searches as well as knowledge of the Kx technology which is highly relevant in the industry today!</p> <p>In terms of transferable skills, students should be able to grasp through the workshop:</p> <ol style="list-style-type: none"> 1. Basics of kdb+ and real-life applications 2. Understanding Big Data and Databases 3. How information is captured and stored 4. How to query this information 5. What are the best techniques to mine this data 6. Architecture design
<p>11 May 9.00 to 12.30pm</p> <p>@TBC</p> <p>[Cancelled]</p>	<p>Analysing data made easy with SAP Analytics Cloud</p> <p>Fees: Free</p>	<p>For: SMU undergraduates, postgraduates, teaching assistants and professors who are interested in data analytics.</p> <p>Prerequisites: No data analytics background is required.</p> <p>Min class size: 25 (the class will run only with min size) Max class size: 50</p> <p>Instructor: SAP trainer</p> <p>Syllabus Details: ASEAN Data Science Explorers (ADSE) is a flagship programme under the ASEAN Foundation’s collaboration with SAP to engage and prepare today’s youth for tomorrow’s world. Using SAP Analytics Cloud (SAC), ADSE</p>

		<p>encourages participants to deliver data-driven insights which highlight pressing social and economic issues in ASEAN across six United Nations Sustainable Development Goals: (1) Good health and Well-being, (2). Gender Equality, (3). Quality Education, (4). Decent Job and Economic Growth, (5). Industry, Innovation and Infrastructure, and (6). Sustainable Cities and Communities</p> <p>In this session, we cover the fundamentals of SAP Analytics Cloud (SAC) – importing datasets into SAC, constructing meaningful stories using data, and predicting future trends for better decision making.</p> <ol style="list-style-type: none"> 1. Importing data 2. Smart discovery 3. Data explorers 4. Calculations & Input controls 5. Designer mode & geo-enrichment <p>This is a hands-on course. Attendees are expected to attend the full duration of the session. Attendees will be provided access to SAP Analytics Cloud and relevant materials during the session.</p> <p>After the session, attendees are encouraged to train SMU students for ADSE competition.</p> <p>The competition is now open for registration via https://www.aseandse.org/</p>
<p>12 May 10.00 - 12.00pm @Online</p>	<p>Intro to FISCO BCOS Blockchain Experience WeBank Workshop</p> <p>Fees: Free</p>	<p>For: Anyone interested in understanding blockchains.</p> <p>Prerequisites: Curiosity in Financial Grade Blockchain.</p> <p>Min class size: 30 (the class will run only with min size) Max class size: 990</p> <p>Instructor: WeBank instructor and Paul Griffin</p> <p>Online: The course will be held online from WeBank BCOS experts. You will need to have your own computer and be able to access the live video meeting through WebEx.</p> <p>Syllabus Details: Gain the basic knowledge of FISCO BCOS and its open source community, and be inspired by the success stories of establishing real-world large-scale applications for collaborative business on FISCO BCOS blockchain infrastructure. Understand the key concepts and design principles of financial grade blockchain systems.</p>
<p>15 Jan 2020 7.15 – 9.15pm @SOL SR3.10</p> <p>Registration closed</p>	<p>How to explore and navigate analytic dashboards with TIBCO Spotfire X</p> <p>Fees: Free</p>	<p>For: Data visualization beginners who want to explore analytic dashboards</p> <p>Prerequisites: None</p> <p>Max class size: 20</p> <p>Instructor: Rafael J. BARROS (Faculty)</p> <p>Syllabus Details:</p> <ul style="list-style-type: none"> ● Data Visualization Fundamentals

- Marking Data
- Filtering Data
- Basic Data Cleaning

Are you new to data visualization? Have you been wanting to learn more on data preparation? Together with She Loves Data, Singapore Management University and TIBCO, we will explore the basic skills to consume analytics dashboards: marking, filtering and basic data cleaning.