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Level 2 Tutor Resources 2021/22





Welcome to the Level 2 Qualification for Leading Activities in STEM.

This sample tutor resource provides a example of sessions and activities linking to the units, Learning Outcomes (LOs) and Assessment Criteria (AC) which make up the Level 2 Qualification for Leading Activities in STEM.

You are encouraged to explore the activities listed in this document and choose any that you feel will support the delivery of your course, making any necessary adaptations or differentiation to tasks to best suit the needs of your learners. The activities are entirely optional, and Centres may choose to complete all or a selection of them. Alternatively, you may wish to meet the course LOs and AC using your own methods and resources.

All of the activities are resourced using simple, everyday materials such as pens, paper and sticky notes. However, many of these activities can also be delivered using digital tools and/or delivered remotely.

The 'at a glance' table below will show which session/s and tasks can support each unit, LO and AC throughout your course. You will notice suggested timings for each session, including direct teaching time as well as any additional, independent study time that may be appropriate.

All learners will gather evidence throughout the course in their Learner Evidence Records. Each task that must be completed is also mapped in the table below.



Session overview

Delivering and assessing STEM Leaders

Session	Unit and LO	AC	Activity	Learner Evidence Record link
1	Unit 1 - LO1	1.1, 1.2	Effective leadership skills and behaviours	Task 1 - Skills and behaviours required for leading STEM activities
2	Unit 1 - LO2	2.1, 2.2	Identifying strengths and improvements in leadership skills and behaviours	Task 2 – Set an action plan to develop STEM leadership skills and behaviours
3	Unit 1 - LO2	2.3, 2.4	Action planning for leadership development	Task 2 – Set an action plan to develop STEM leadership skills and behaviours Task 9 – Reflect on your action plan to develop STEM leadership skills and behaviours
4	Unit 2 - LO1	1.1	Job opportunities in STEM	Task 3a - Outline the opportunities in STEM
5	Unit 2 - LO1	1.2, 1.3	STEM interests, training and learning opportunities	Task 3b - Pursuing opportunities in STEM
6	Unit 2 - LO2	2.1, 2.2	Overcoming STEM barriers	Task 4 - Overcoming challenges to accessing STEM opportunities
7	Unit 3 - LO1	1.1, 1.2, 1.3	Being safe and assessing risk	Task 5 – Identifying risks in STEM activities
8	Unit 3 - LO3	3.2, 3.3	Effective communication	Task 6 – Plan, lead and evaluate a STEM activity Task 7 – STEM Leadership Log
9	Unit 3 - LO2	2.2, 3.4, 3.6	Changing the level of challenge	Task 6 – Plan, lead and evaluate a STEM activity
10	Unit 3 - LO2	2.1	Developing planning skills	Task 6 - Plan, lead and evaluate a STEM activity



Session	Unit and LO	AC	Activity	Learner Evidence Record link
11	Unit 3 - LO4	2.3, 3.5	Choosing STEM challenges and activities	Task 6 – Plan, lead and evaluate a STEM activity Task 7 – STEM Leadership Log
12	Unit 3 - LO2, LO3	2.1, 4.1	Developing evaluation skills	Task 6 – Plan, lead and evaluate a STEM activity Task 7 – STEM Leadership Log
13	Unit 3 - LO3, LO4	3.1, 4.1, 4.2	Leading STEM activities	Task 6 - Plan, lead and evaluate a STEM activity Task 7 - STEM Leadership Log Task 9 - Reflecting on your action plan to develop STEM leadership skills and behaviours
14	Unit 3 - LO3, LO4	3.1, 4.1, 4.2	Leading STEM activities	Task 6 - Plan, lead and evaluate a STEM activity Task 7 - STEM Leadership Log Task 9 - Reflecting on your action plan to develop STEM leadership skills and behaviours
15	Unit 4 - LO1, LO2	1.1, 1.2, 1.3, 2.1. 2.2	Running a STEM activity club in your community	Task 8 - Create a plan to run a STEM club
	Unit 1 - LO2	2.1, 2.2		Task 9 – Reflect on your action plan to develop STEM leadership skills and behaviours



Session 2

Activity	Description	Resource needs	Suggested timing	LER task link
Introduction to the	Recap the previous session.		5 minutes	
session	Outline what will be covered in this session.		3 mmates	
Identifying	In pairs.		10 minutes	
leadership skills	1. Ask pairs to continuously count out loud: 1, 2, 3; 1, 2, 3; 1, 2, 3 (where they			
and behaviours	each say a number alternately)			
	2. 1st Change: Do the same but replace 1 with a clap of the hands (the person			
	who would say 1 must clapinstead)			
	3. 2 nd change: now replace 2 with a click of the fingers (keeping 1 as a clap			
	of the hands)			
	4. 3 rd Change: Now replace 3 with a choice agreed between learners (keep			
	change 1 and 2 in place also).			
	This activity should be followed with a group discussion. Learners should be able to			
	identify:			
	 What skills and behaviours were important for success in the activity? 			
	 Why might these be important in leadership? 			
	Note that this is a good example of how to make an activity easier or harder.			
	For example, to make the task harder the learners could be facing away			
	from each other so they cannot be prompted, or count in Japanese. To make			
	it easier, learners could have all actions changed to ones that they can			
A31.41 C 1	complete using their hands (clap, click, wave, fist pump)	D	45	
All the Good	Ask learners to make a list of all the things they are good at.	Paper, pens	15 minutes	
Things!	Include the things that they do (skills) as well as how the do things			
	(behaviours).			
	Be as specific as possible. Belomedel a few examples for example. The specific as possible few examples for examples.			
	Role model a few examples, for example: • Always being on time.			
	Always being on time. Able to think of new ideas.			
	 Able to think of new ideas. Not giving up when trying new things that are hard. 			
	- 1400 grving up wrien ir ynig new tilligs that are haru.			



	Some learners may say 'I am good at baking or I am good at map reading'. Ask them to think about what are the things that they need to do to be good at these things. Baking might mean being accurate with ingredients, planning timings, or follow the recipe instructions. Map reading might be noticing their surroundings, using information to calculate distance, analysing symbols and icons, or problem solving. • In pairs. Learners share the things that they believe they are good at. Ask learners to add to their partners list by giving things that they think they are good at.			
	Using the list created, ask learners to see if any of them fit under any of the following five headings Communication. Self-belief. Teamwork. Self-management. Problem solving. Learners may not have anything from their list that fits under each heading. Reassure learners that this is OK. Consider if as a tutor you can add something you know a learner is good under each of the headings.	Paper, pens		
Spot the difference	Lead a short 5 minute task for the learners where it is deliberately highlighted what happens when leadership skills and behaviours are not very good. This will require role play from the tutor with added over emphasis of behaviours. Suggested task: Ask leaders to make and test a paper aeroplane. Suggestions for showing poor leadership skills and behaviours: Very short instructions. Negative body language – arms crossed, looking away. Be negative and unenthusiastic about the task. Don't help anyone in the team. Blame others for when things go wrong. Not organised with materials. Say you don't have any ideas on how to do it. Avoid making any decisions.	Tutor's decision	15 minutes	



	Clearly finish the demonstration to avoid any confusion for learners.			
	Ask learners for all the things you did that were not good leadership skills or			
	behaviours. Challenge them to come up with more than ten.			
	Ask learners:			
	 What would they recommend you improved on? 			
	What do they recommend you need to do to improve?			
	Link this task with the next task which requires them to reflect of what they are		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	good at and what needs improvement.			
Identifying	Ask learners to identify at least two strengths in own leadership skills and two	Access to LER	5 minutes	Task 2 – Set an
strengths	strengths in own leadership behaviours. These are to be written in the Task 2 LER.		action plan to	
				develop STEM
	Learners will need to:			leadership skills
	Describe their strengths in relation to the skills and behaviours.			and behaviours
	When learners are wanting to improve the skills and behaviours by.			
	Who can help them develop the skills and behaviours.			
Identifying areas	Ask learners to identify at least two leadership skills and two leadership behaviours	Access to LER	5 minutes	
for improvement	to improve . These are to be written in the Task 2 LER.			
	To complete Task 2 learners will need to:			
	How they could improve their skills and behaviours.			
	Include a timescale for when learners are wanting to improve the skills and			
	behaviours by.			
DI1	Who can help them develop the skills and behaviours? P. G. attication and the skills and behaviours?		F	
Plenary and	Reflective questions		5 minutes	
Independent	How does it feel describing things you are good at? Let a size any handow to think of your throughth a process for the second sec			
Study	Is it easier or harder to think of your strengths or your areas for			
	improvement?			
	Independent Study			
	Update Task 2 LER records with their strengths			



Session 10

Activity	Description	Resource needs	Suggested timing	LER task link
Introduction	Recap the previous session.		5 minutes	
to session	Outline what will be covered in this session.			
The importance	Learners write down all the things they need to do to host a film night with their friends. Could be completed on post it notes, as a mind map, or as a list.	Pen and paper	20 minutes	Task 6 - Plan, lead and
of a plan	Swap with a partner and see if they have any questions about the list of actions.	Flip chart, post it		evaluate a
or a plan	What did you forget to plan for? What was missing?	notes		STEM activity
	Are they in order of needing to be completed?	Hotes		Di Elitactivity
	Where there any differences in expectations?			
	Did it include all the equipment needed?			
	Were there any timings provided?			
	Was there too much detail or not enough detail?			
	Did it include consideration for what friends would need to do before and after			
	the film event? i.e. bring any snacks, get a lift home, etc.			
Developing	Tutor to outline how to plan a session. Include the following points:	Pens and paper.	10 minutes	Task 6 - Plan,
planning	Date and time of the activity.			lead and
skills	 Who will be taking part? Age, number of people, any additional needs, etc. 	Access to LER.		evaluate a
	What is the aim of the activity? The focus or main thing that you would like			STEM activity
	participants to achieve.			
	What facilities do you have available or need? What type of space? Indoor or			
	outdoor?			
	What equipment or resources will you need?			
	Any key safety concerns?			
	Who is the responsible person or adult supervising?			
	Introduction and activity start.			
	A description of the activity.			
	One way that the activity can be adapted to make easier or harder.			
	Brief description of the activity to be lead.			
	A description of the activity.			
	 One way that the activity can be adapted to make easier or harder. 			



	 Concluding activity. 				
	o A description o				
	o One way that t				
	 Evaluating the activity 				
	 Was the activit 				
	 Was every part 				
	o How will you g				
	This activity could be completed				
	parts of the planning process to				
	Plan	Do			
	Date and time of the activity.	Introduction and activity start.			
	Who will be taking part? Age, number of people, any additional needs, etc.	A description of the activity. One way that the activity can be adapted to make easier or harder.			
	What is the aim of the activity? The focus or main thing that you would like participants to achieve. What facilities do you have available or need? What type of space? Indoor or outdoor? What equipment or resources	Brief description of the activity to be lead. A description of the activity. One way that the activity can be adapted to make easier or harder.	Review Evaluating the activity Was the activity successful? Was every participant able to take part successfully? How will you get feedback from participants.		
	will you need? Any key safety concerns?	Concluding activity.			
	Who is the responsible person or adult supervising?	A description of the activity. One way that the activity can be adapted to make easier or harder.			
	Learners begin to plan one of th	eir 15-minute STEM activitie	S.	20 minutes	Task 6 - Plan,
	o Learners can ch	noose to do this task individua	ılly or in pairs.		lead and
	o Focus on the 'Plan' section. The 'Do' section will be covered next session.				evaluate a
	o The template fo	or recording a STEM activity p	olan is in Task 6 LER.		STEM activity
Plenary	Reflective questions			5 minutes	
	 What was the easiest p 				
	What was the most cha				
		orward to about the 15 minut			
				l	









