

WorldSkills UK Learning Lab

Technical Masterclass - lesson guide

On-demand learning and resources powered by international best practice, making world-class skills development accessible for all.

SUITABLE FOR Students and apprentices from Level 2 – 3

Skills: problem solving, time management, self-reflection, planning, organisation, lean principles, confidence, independence.

Introduction

Designed for students and apprentices working towards technical and vocational specialisms from Level 2 - 3.

Technical Masterclasses cover over 20 curriculum areas to help teachers and trainers introduce new techniques and practical skills to challenge and stretch students and apprentices, in developing occupational expertise and transferable skills like problem solving and critical reflection.

Learning outcomes

- learners will be introduced to new skills to carry out tasks to high standards of technical competence and quality
- learners will understand the process of lean principles and be able to demonstrate the importance of improving efficiency, waste management and work organisation
- learners will develop practical problem-solving skills and critical reflection on experience, including learning from mistakes.

[More information](#)

Length of programme

There are over 20 interactive Technical Masterclasses from beginner to advanced levels varying in length from 30 – 90 mins. If delivering to a group, we anticipate a further 4 + hours.

Digital Credential

If a learner completes the programme of Technical Skills Masterclasses independently via the Learning Lab, they will receive a digital credential.

Guidance for delivery

Educators will find Technical Masterclasses offer the flexibility to be delivered in short blocks or as weeklong programme of development, alternatively completing the programme independently will add more value to your learner's development.

Suitable for students and apprentices working towards specific technical and vocational specialisms.



This lesson plan is to support the general overview and based on delivering to a small or large group and can be easily tailored to suit your planned delivery, and is suitable for:

- ✓ Large groups
- ✓ Small groups
- ✗ Tutorials
- ✓ Independent learning



Lesson guide

PCDES LESSONS	TIMINGS*	KEY LEARNING AND DISCUSSION POINTS
Introduction to the Technical Skills Masterclass	10 minutes	Introduce the WorldSkills UK Technical Masterclass and how this will support their development.
Discuss the Developing Excellence Framework and 7-step process	15 minutes	<p>Play the video and discuss the steps of the process they will complete as part of the Technical Skills Masterclass:</p> <ol style="list-style-type: none"> Engage standards - a clear understanding of what is expected of the student or apprentice and the standard at which they are expected to perform, behave or carry out a task. Demonstrate - observing the desired process or outcome is an important part of this step to master techniques and / or practices. Practice - carrying out the task to apply and adopt the demonstrated techniques and / or practices. Assess - measuring performance against the standard through self-assessment using a marking scheme. Reflect - looking back on the experience, reviewing successes, failures, re-setting and action planning next steps. Feedback - two-way communication between educator and student or apprentice reviewing performance against the standards to support improved practice in future. Repeat - developing technical excellence through practice of continuous improvement.
Introduce and discuss lean principles	10 minutes	<p>Play the lean principle video and discuss what this means to learners in developing their craft or practice.</p> <p>Introduction to lean principles - video.</p>
Explore the principles of work organisation and waste management by sectors	15 minutes	<p>Play one of the sector videos to support facilitate a discussion and raise awareness of how this applies in practice by sector or industry</p> <ul style="list-style-type: none"> Lean principles in Engineering - video Lean principles in Construction - video Lean principles in IT and Digital - video Lean principles in Hospitality and Lifestyle - video Lean principles in Creative Industries - video.
Step 1 - engaging the standard	15 minutes	<p>As the first step of the process, it's important to ensure learners have a clear understanding of what is expected and the standard at which they are required to perform, behave or carry out the task.</p> <p>At this point share the brief/ task and assessment criteria to provide an opportunity to discuss and answer questions.</p>
Step 2 - demonstrate the standards, process, and task / activity	dependent on the task	After you have shared and discussed the expected standard, it's important to demonstrate the process or outcome. You can either showcase this yourself or play the videos available to support this step.
Step 3 - practice the task / activity	dependent on the task	There is a lesson plan for each masterclass, use this to support carry out the task or activity. This can be accessed via the educator pack within the WorldSkills UK Learning Lab.
Step 4 - assess the task / activity	30 minutes	Use the marking scheme to assess the completed task – to deepen a learner's understanding, we encourage self-assessment or peer assessment.

Step 5 - reflect on the task / activity	30 minutes	<p>As a valuable part of the development process, either independently or in groups ask learners to evaluate on their performance in undertaking the task/ activity to reflect on the successes, failures supporting them re-set and plan their next steps.</p> <ul style="list-style-type: none"> • discuss areas for further development • explore what they will do differently. <p>Use the Realistic Performance Evaluation template to facilitate this part of the process and can be used as part of your tutorial.</p>
Step 6 - feedback on the task / activity	30 minutes	<p>Feedback is a valuable improvement mechanism to support, coach and progress a learner's development. Ask learners to talk you through their Realistic Performance Evaluation form to facilitate this part of the process as part of a tutorial.</p> <p>If learners are finding the pressure of education, work and life a challenge we have developed a set of Mindset Masterclasses to support young people. This is a complimentary learning resource to the Technical Skills Masterclasses.</p>
Step 7 - repeat the task / activity	dependent on the task	<p>Technical capability and expertise are underpinned by continuous practice, to advance learners repeat the process from steps 3 – 6 applying the lessons learnt from first attempt.</p> <p>To add stretch and challenge for learners, you can change the complexity of the task by reducing the time, tolerances, or criteria for assessment.</p>
Complete the evaluation form	5 minutes	<p>As part of continual process to ensure our resources and materials meet needs of educators and learners – please complete a short evaluation form:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>educators evaluation form</p> </div> <div style="text-align: center;">  <p>learners evaluation form</p> </div> </div>

*Timings are indicative and may take longer in group settings

If you have any questions or require support, please contact learninglab@worldskillsuk.org or call 0800 612 0742.