

AUR20720 Certificate II in Automotive Vocational Preparation VDSS Shared Resources

November 2025



Acknowledgement of Country



eWorks acknowledges the traditional custodians of the lands on which we meet, the Brayakaulung people of the Gunaikurnai nation, and pay our respects to Elders past and present. We would also like to pay our respects to any Aboriginal Elders who may be here today.

We extend that respect to their history and continuous connections to Country.

Reconciliation will only be achieved if the past is acknowledged, the present understood, and the future is based on equality, respect and genuine opportunity.

Ramona Younan



Ramona Younan
eWorks - Manager

Ramona brings extensive experience in leading large-scale VET projects.

Her expertise spans strategic design, stakeholder engagement and curriculum innovation within the VET sector.

Ramona is recognised for her ability to orchestrate complex partnerships across education providers, industry, and employers. She facilitates co-design workshops, advisory groups, and industry consultations, ensuring training solutions are practical, future-oriented, and tailored to employer and learner needs.

Bendigo Kangan Institute



Bendigo TAFE offers vocational education and training in regional Victoria and has been transforming lives for more than 155 years.



Kangan Institute is a major VET provider for central and northern metropolitan Melbourne. Offering industry-relevant training in a wide range of disciplines and on-site training options to suit the unique needs of the individuals.

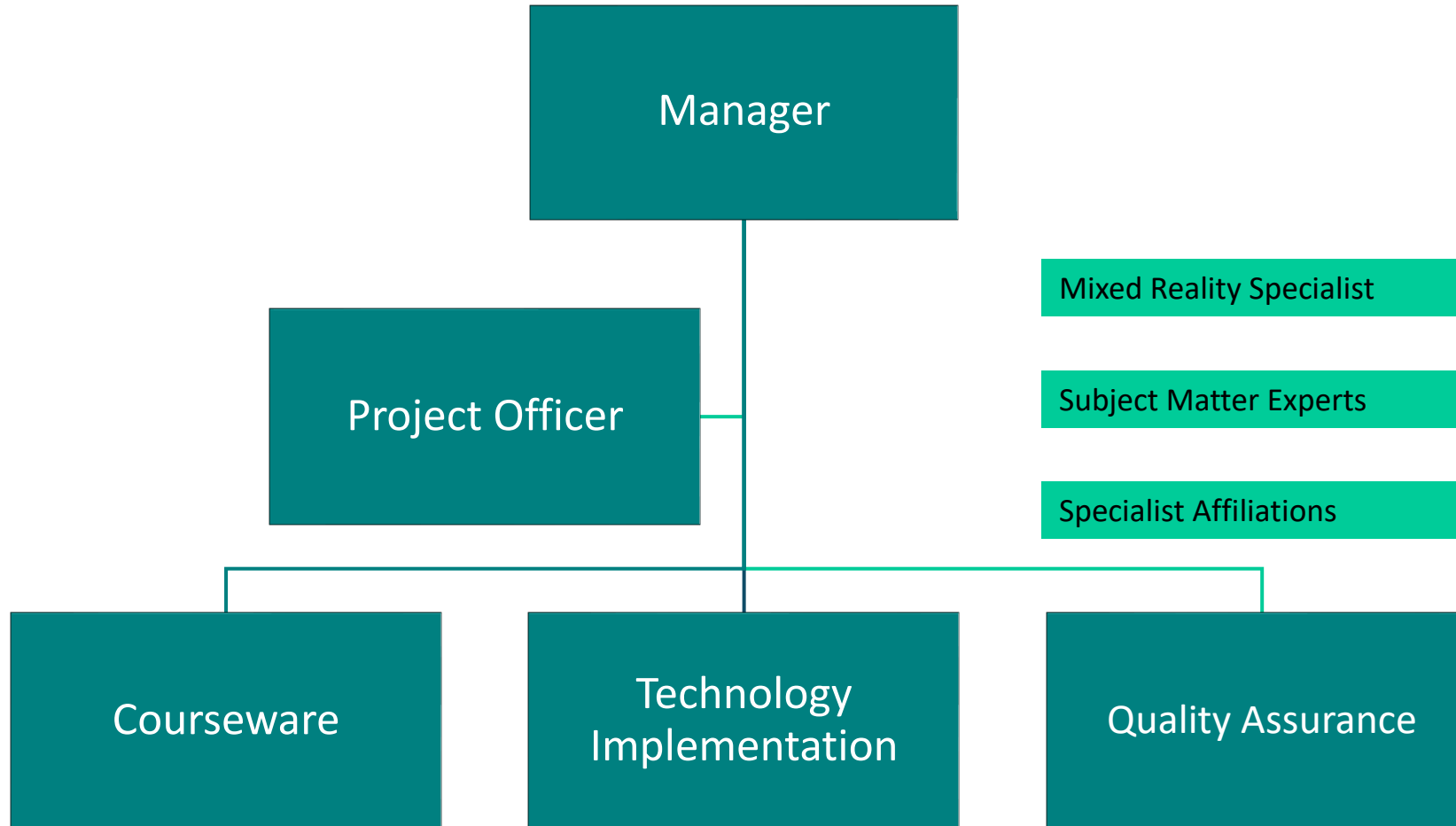


VETASSESS is Australia's leading authority in qualifications and skills assessment. It provides educational services and consultancy for public and private sector clients.



eWorks provides holistic online solutions and experiences for organisations and learners. We are experts in e-learning technology and content design that engages.

Winning Team



Bespoke Content

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Design loyalty programs for customers



Last year, your business ran a customer loyalty program, which was a complete failure.

Now you are on a mission to figure out what went wrong and design a successful loyalty program for customers.

To tackle this mission, you've hired Jess and Mark, two consultants from the local marketing

Navigating change: How to transition from peer to manager

RESUME MODULE

Pusat panggilan outsourcing



4-6 jam

Mulai



2.1 Gathering tools, equipment and ELV components

In this topic, you will be looking at gathering the right tools, materials and components to safely and successfully install a sustainable extra-low-voltage (ELV) energy supply system. Getting organised before you start the job helps you work smarter, safer, and with fewer surprises on site.



Mark Torpy



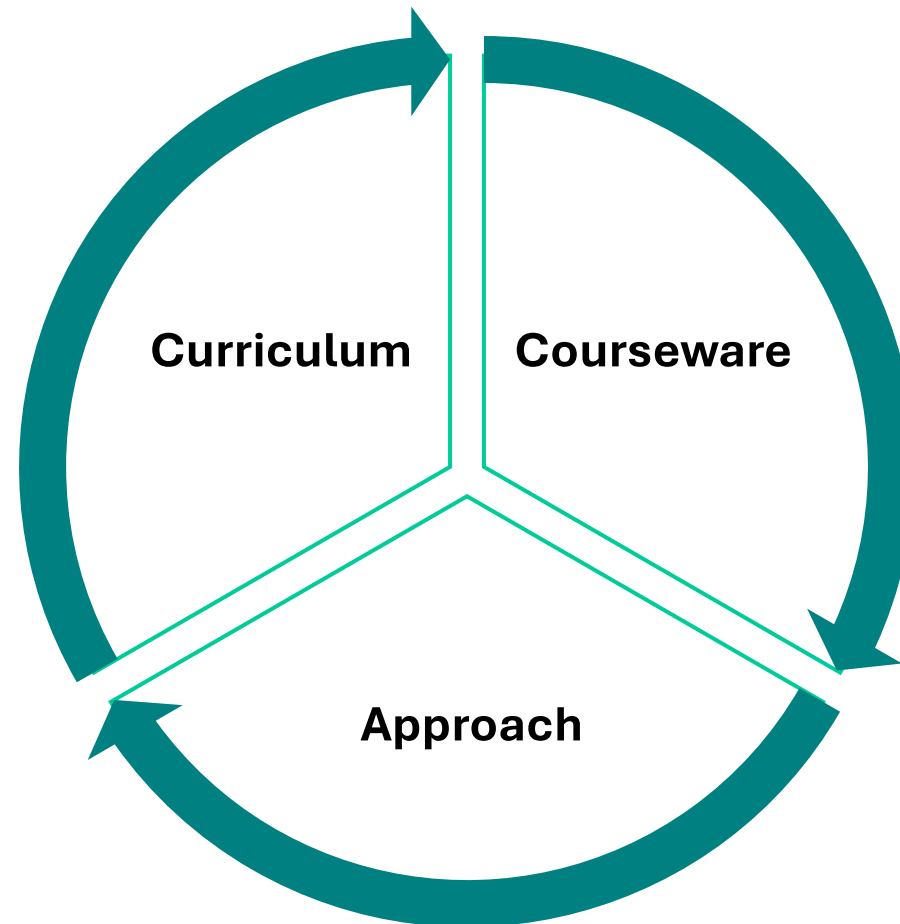
Mark Torpy
VET Courseware
Team Lead

Mark brings deep expertise in the design, development, and production of high-quality vocational education resources.

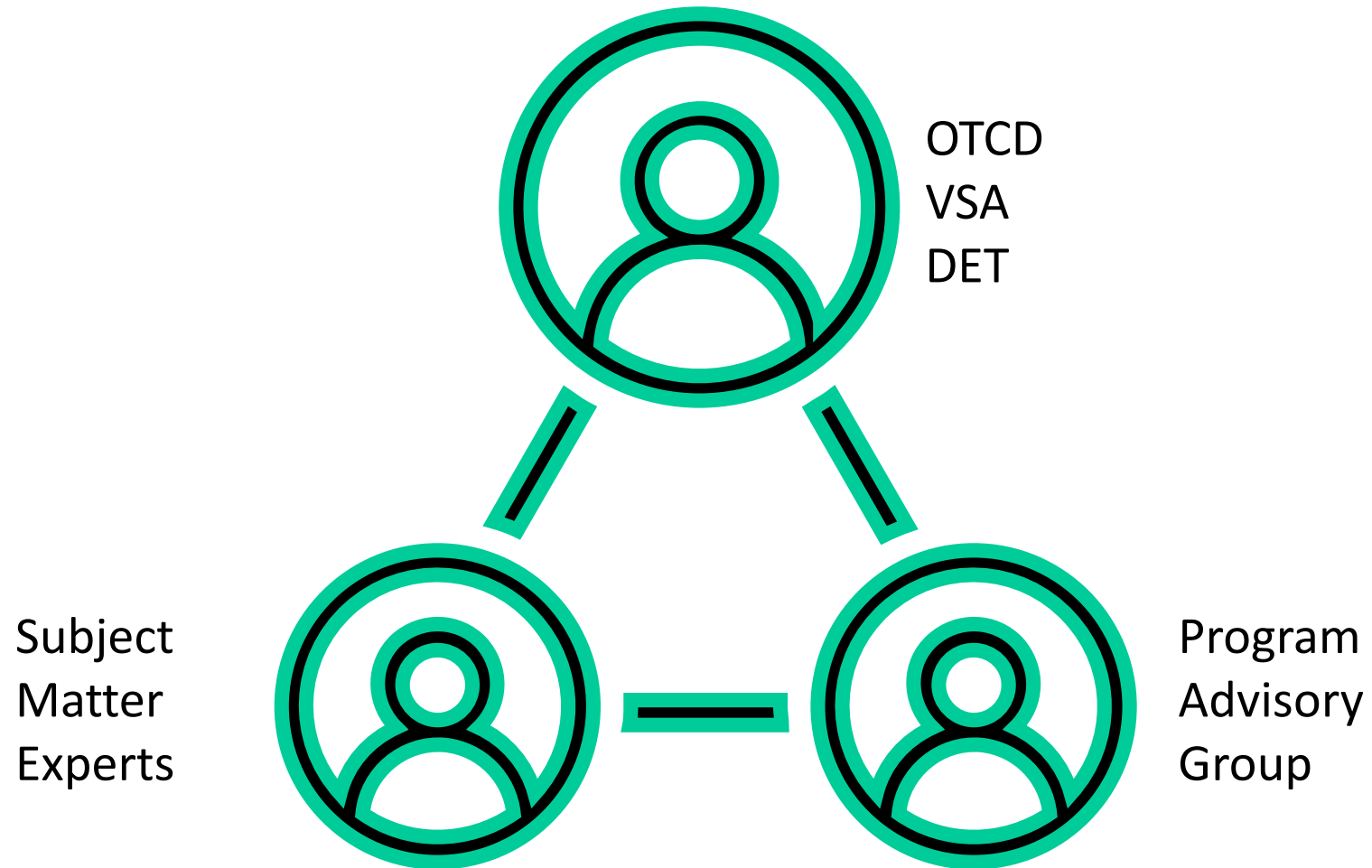
A vocational teaching background coupled with an Associate Degree in Adult and Vocational Education; Mark has extensive experience managing large-scale courseware development projects.

He leads a team of instructional designers to create end-to-end courseware, assessments, and digital learning materials across multiple training packages, ensuring alignment with industry expectations, compliance standards, and learner needs.

OTCD VDSS Project



Consultation





DEVELOPMENT- AURETR115 Inspect test and service batteries

[Change cover image](#)

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Topic 3: Service and maintain batteries

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Topic 4: Finish your work properly

Progress: 0 / 1

Assessments

Progress: 0 / 9

Final result

Conditional Progress: 0 / 1

Student feedback

Conditional

Student resources

Copyright & References



Teacher resources

Not published to students

Welcome and getting started



Welcome to AURETR115 Inspect, test and service batteries

This unit of competency is required for the qualification AUR20720 Certificate II in Automotive Vocational Preparation and prepares you to safely work with vehicle batteries.

You will learn how to safely inspect batteries, test if they're working properly, and service them to keep vehicles running. This includes cars, Utes, trucks, farm machinery, boats, and motorbikes.

Pre-requisite unit/s

There are no pre-requisite units to this unit.

For more information about the delivery and assessment of this unit, download the 'Unit Outline' from the forum in the 'Staying-up-to-date' section of this unit.

Finding your way around MyLearning

Here are some quick tips to get you started:

- Complete this MyLearning course by working your way through the topic and assessment pages.
- To navigate between pages, use the menu on the left-hand side of the screen and select the name of the page you want to open.
- You can also move through this MyLearning course using the next and previous section links at the bottom of a page.

For help with your MyLearning account contact MyLearning Support by emailing mylearningsupport@kangan.edu.au or calling 1300 329 330.

Let's start learning



Let's start learning with a quick activity!

Start by reading through the information in the block below and then complete the quiz that follows.



Edit section



PAGE

Introduction to battery work



Batteries are the heart of every vehicle's electrical system. They store and supply the electrical energy needed to start engines, power lights, run onboard electronics, and keep safety systems functioning. Without a working battery, vehicles can't start, headlights won't turn on, and critical systems like ABS and airbags may fail to operate. Understanding how batteries work—and how to keep them working—is essential for anyone involved in vehicle maintenance or repair.

In this course, you'll learn how batteries function, including how chemical energy is converted into electrical energy to power a vehicle. You'll explore different types of batteries used in cars, trucks, boats, and farm equipment, and how to inspect, test, and service them correctly.

Working with batteries comes with risks, and safety is a top priority. Batteries can deliver high currents, and mishandling them can lead to electric shock, burns, or even explosions. Some batteries contain corrosive acid that can damage skin and eyes, while others may emit flammable gases. You'll learn how to protect yourself by using the right tools, wearing appropriate safety gear, and following safe work practices.

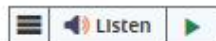
By the end of the course, you'll be able to:

- Identify different battery types and their applications
- Use diagnostic tools to test battery health and performance
- Safely remove, install, and service batteries
- Recognize and respond to battery-related hazards
- Work confidently and professionally, just like a qualified mechanic

These skills are valuable whether you're helping fix family vehicles, maintaining farm machinery, servicing marine equipment, or starting a career in automotive repair. Battery work is needed everywhere vehicles are used—and knowing how to do it safely and effectively makes you a trusted and capable technician.

DEVELOPMENT- AURETR115 Inspect test and service batteries

Let's start learning quiz



Receive a grade

Receive a passing grade

See what you have learnt about this topic by answering the **five (5) questions** in this quiz.

The quiz is **not** part of your assessment but you are required to complete it to indicate your participation.

You must gain 80% to complete this quiz successfully. **You have unlimited attempts.**

If you don't get all the questions correct, revise the content and have another try.

Select **Attempt quiz now** to get started.

To return to your course while in a quiz, use the link at the top of the page.

[Continue the last preview](#)

Grading method: Highest grade

Grade to pass: 80.00 out of 100.00

Your attempts

Attempt 1

Status In progress

Started Wednesday, 5 November 2025, 2:27 PM

DEVELOPMENT- AURETR115 Inspect test and service batteries



Let's start learning quiz

[Back](#)

Question 1

Not yet answered

Marked out of 1.00

 Flag question

 Edit question

v1 (latest)

Why are batteries important in vehicles? Why are batteries important in vehicles?

- ☐ a. They make vehicles go faster
- ☐ b. They provide electrical power to start engines and run lights
- ☐ c. They make the engine louder
- ☐ d. They help with steering

[Next page](#)

2.2 Types of batteries you'll see

This lesson looks at different types of automotive batteries and their characteristics. You'll learn about lead acid, maintenance-free, gel, AGM, calcium, and lithium batteries



Video: Types of batteries car. (4:02)

Select the play icon or read the transcript below to learn about types of car batteries.

Accessed 23/10/25.



Transcript



AURETR115

Topic 2

11% COMPLETE

- 2.1 How batteries work ☒
- 2.2 Types of batteries you'll see ☐
- 2.3 Understanding battery ratings ☐
- 2.4 Battery connections and circuits ☐
- 2.5 Testing battery systems ☐
- 2.6 Testing battery circuits ☐
- 2.7 Reading your test results ☐
- 2.8 Reporting what you found ☐
- ☐ What have I learnt? ☐

Activity - Battery type identification

Match each battery type with its main characteristic.

Lead acid battery	Removable caps, requires regular maintenance
Gel battery	Glass mat separators, spill proof construction
Deep cycle battery	Gelled electrolyte, can be mounted in any position
AGM battery	Very light weight, high energy density
Lithium ion battery	Thick plates, designed for repeated deep discharge

SUBMIT

Maintenance-free batteries

Maintenance-free batteries are sealed and don't require regular electrolyte checking.

Maintenance-free design features

- Sealed construction prevents electrolyte loss
- No removable caps for adding water
- Internal recombination system
- Lower maintenance requirements

Advantages

Limitations

Gel batteries

Gel batteries use gelled electrolyte instead of liquid acid.

Gel battery construction:

- Electrolyte is thickened to gel consistency
- Cannot spill even if case is broken
- Completely sealed construction
- Pressure relief valves for safety

Advantages of gel batteries:

- Spill proof operation
- Can be mounted in any position
- Better vibration resistance
- Slower self-discharge rate
- Good performance in extreme temperatures

Where gel batteries are used:

- Motorcycles and ATVs
- Marine applications
- Emergency lighting systems
- Medical equipment
- UPS (uninterruptible power supply) systems

What have I learnt?

This quiz has **five (5) questions**.

The quiz is not part of your assessment but it will help you check your understanding of this topic. You have unlimited attempts to complete the quiz – if you get any questions wrong, revise the topic and then have another try.

To return to your course while in a quiz, use the link at the top of the page.

[START QUIZ >](#)

Question

01/05

What voltage indicates a fully charged 12V battery?

Select **one (1)** correct answer.

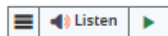
- ☐ 14.4V or higher
- ☐ 12.6V or higher
- ☐ 12.0V or higher
- ☐ 13.8V or higher

SUBMIT

Quiz Results

Your score **100%**

PASSING
80%



Assessments



Overview of assessment tasks

There are **three (3) assessment tasks** you need to complete for this unit.

- AT1 Questioning Assessment - Quiz questions
 - Part A
 - Part B
 - Part C
 - Part D
- AT2 Questioning Assessment – Written responses
 - Part A
 - Part B
 - Part C
 - Part D
- AT3 Direct Observation

Results/Second attempt

If you are deemed not satisfactory for any of these assessment tasks, you will be given one (1) more attempt for that assessment (or part thereof), or your teacher/assessor will negotiate a further assessment with you. The second attempt must be completed within 10 working days from the date your feedback is given.

Important information

You can access further information regarding assessment, including Recognition of Prior Learning, Reasonable Adjustment and Assessment Appeals in the Student handbook, which can be found on the MyLearning portal.

Accessing assessment tasks

Select the 'quiz' and 'assignment' links below for instructions on how to complete and submit assessment tasks.

As part of the submission process, you will complete the Student Declaration to confirm that:

- the assessment is your own original work
- you have retained a copy of the assessment
- you understand information about the return and retention of the assessment.



QUIZ

AURETR115 AT1 Questioning Assessment – Quiz (Part A)



0 of 0 Attempted



QUIZ

AURETR115 AT1 Questioning Assessment – Quiz (Part B)



0 of 0 Attempted



QUIZ

AURETR115 AT1 Questioning Assessment – Quiz (Part C)



0 of 0 Attempted



QUIZ

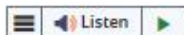
AURETR115 AT1 Questioning Assessment – Quiz (Part D)



0 of 0 Attempted

DEVELOPMENT- AURETR115 Inspect test and service batteries

AURETR115 AT1 Questioning Assessment - Quiz (Part A)



Receive a grade Receive a passing grade

Student instructions

In this assessment, you are required to **answer ten (10) questions** to assess your knowledge and understanding of the topics covered in this unit.

You must answer all questions correctly for successful completion.

Resources you'll need to complete this assessment include:

- Access to Learning Management System (LMS) topics and resources.
- A computer, laptop, or other mobile device with access to the internet.

Assessment conditions:

- This is an individual assessment.
- All questions must be answered, and answers must be your own.
- The due date for this assessment is in the Unit Outline, which can be found in the forum in the 'Staying up-to-date' topic.
- This is an open-book assessment. You may refer to texts and resources to answer the questions.
- If you believe that you may be entitled to reasonable adjustment or special consideration for this assessment task, please notify your teacher prior to the due date. See the student handbook for more details.
- **You have two attempts** to answer all questions correctly. If you are unsuccessful following the second attempt, contact your teacher.
- Start the assessment by selecting the **Attempt quiz now button** below.

[Preview quiz](#)

Attempts allowed: 2

Grading method: Highest grade

Grade to pass: 100.00 out of 100.00

Learnings



Co-design with
educators and
industry



Learner voice



Template
standardisation



Variability in
interpretation of
unit intent



Early risk identification
and contingency
planning

Additional eWorks Projects

Microcredentials

- Hydrogen technologies

Skills Sets

- EVs and FCEVs

International projects

- ACE Cambodia

Internal BKI projects

Questions?

