



# **Gamified, Scenario-based Learning**

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Special Credit to Eammon Jones who was instrumental to much of the project

# About Digital Narratives

Client to complete the Digital Narrative Master Template document with assistance from us.

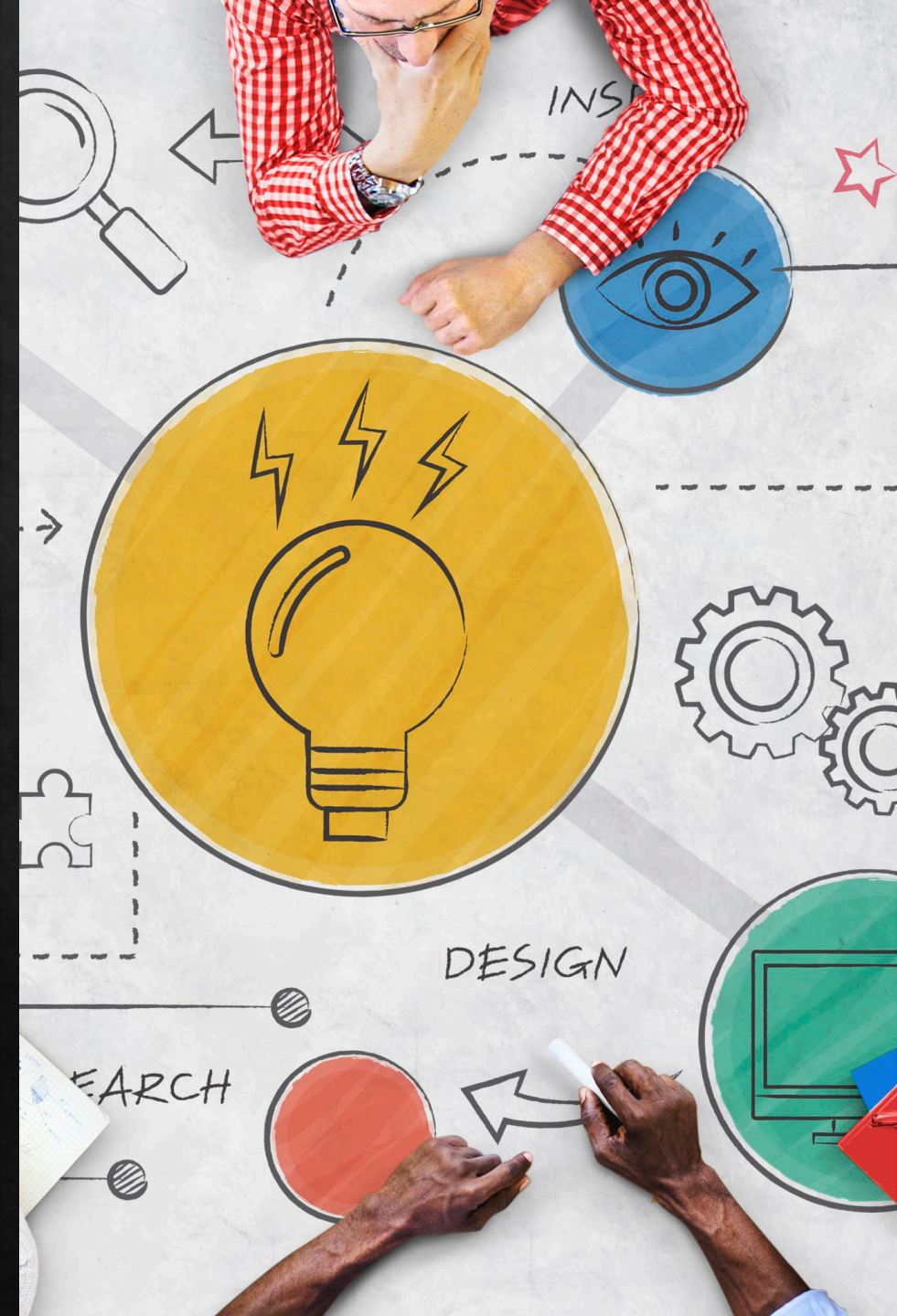
- Digital Production Terms/ Timeframes/ Filming options/Roles and Responsibilities etc
- Project Scope
- Key themes to cover for student learning
- What does the “World” look like?
- Character overview (Who and basic characteristics)
- DP to assist with Character breakdown (Specific personalities to develop the script)
- Each video overview and dot points on major things that will happen or be found
- Sign off





# Scoping with Academic

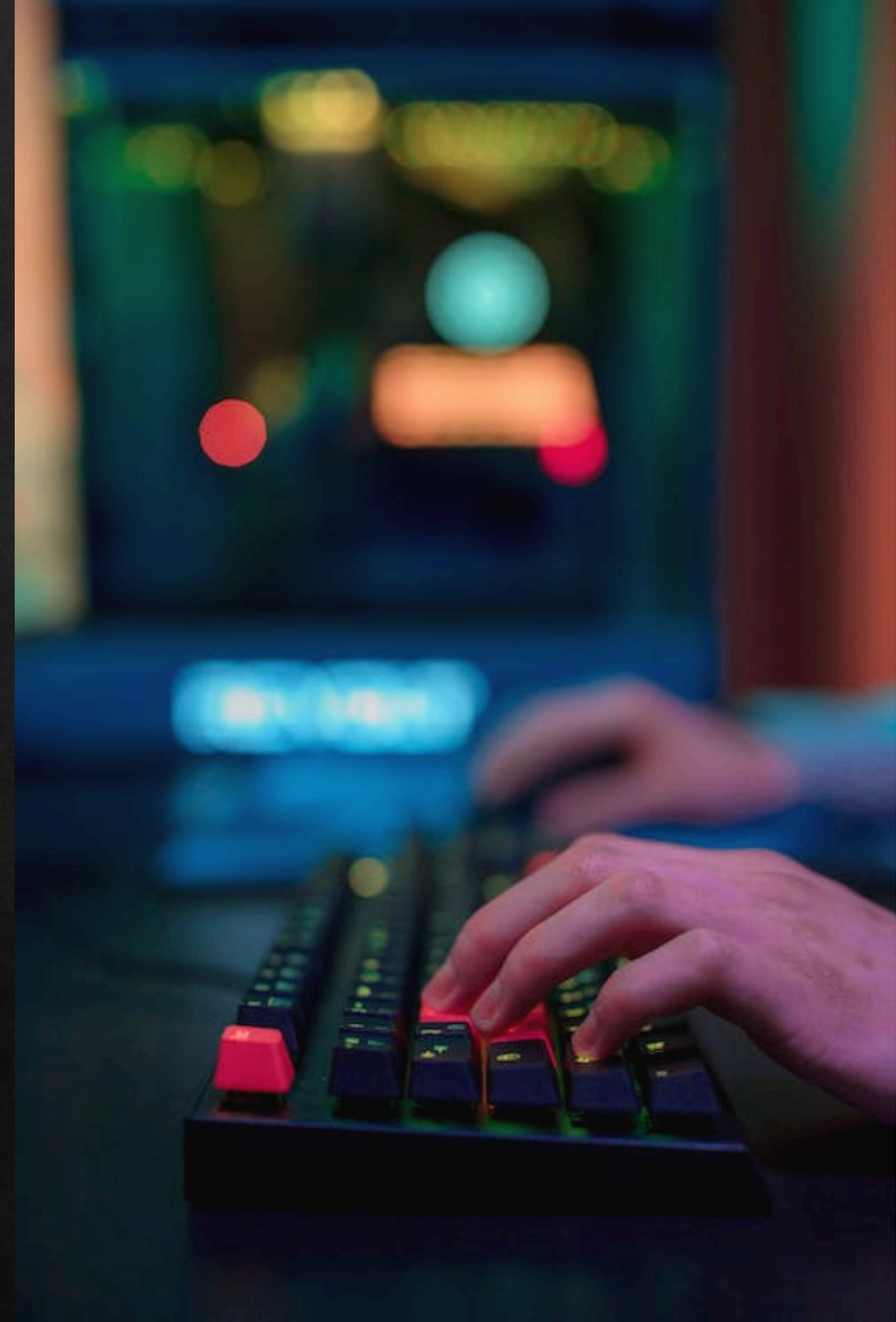
- Typical digital narratives
- What is the incident that has occurred?
- What are the learning objectives?
- What does a typical OHS investigation look like?
- Budget – In this case, all actors were staff who donated their time.
- Ideally, we would use professional actors paid a small fee for a higher quality.





# Gamification Principles

- Narrative
- Immersion
- Interaction
- Immediate Feedback
- Scaffolded Learning
- Progress Indicators







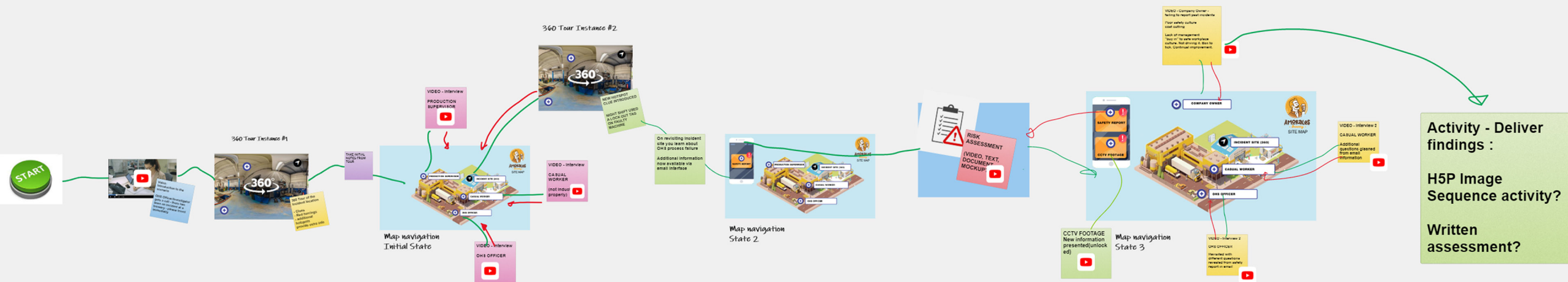
# How will it look?

- How will the experience be presented?
- Branching or linear
- What instructions do students require?
- How many videos to be scripted and filmed?
- Additional artifacts – photoshopped elements, virtual tours, character profiles etc.



**Mind maps – How will it work?**







Video:  
Introduction to the  
scenario

OHS Officer/Investigator  
gets a call - there has  
been an incident at a  
brewery - please travel  
immediatly

## 360 Tour Instance #1



360 Tour of the  
Incident location

- Clues
- Red herrings
- additional  
hotspots  
provide extra info





360 Tour Instance #2



NEW HOTSPOT  
CLUE INTRODUCED

NIGHT SHIFT USED  
A LOCK OUT TAG  
ON FAULTY  
MACHINE

VIDEO - Interview  
PRODUCTION  
SUPERVISOR



TAKE INITIAL  
NOTES FROM  
TOUR



VIDEO - Interview  
CASUAL  
WORKER  
(not induct  
properly)



On revisiting Incident  
site you learn about  
OHS process failure  
  
Additional information  
now available via  
email interface



Map navigation  
Initial State

VIDEO - Interview  
OHS OFFICER



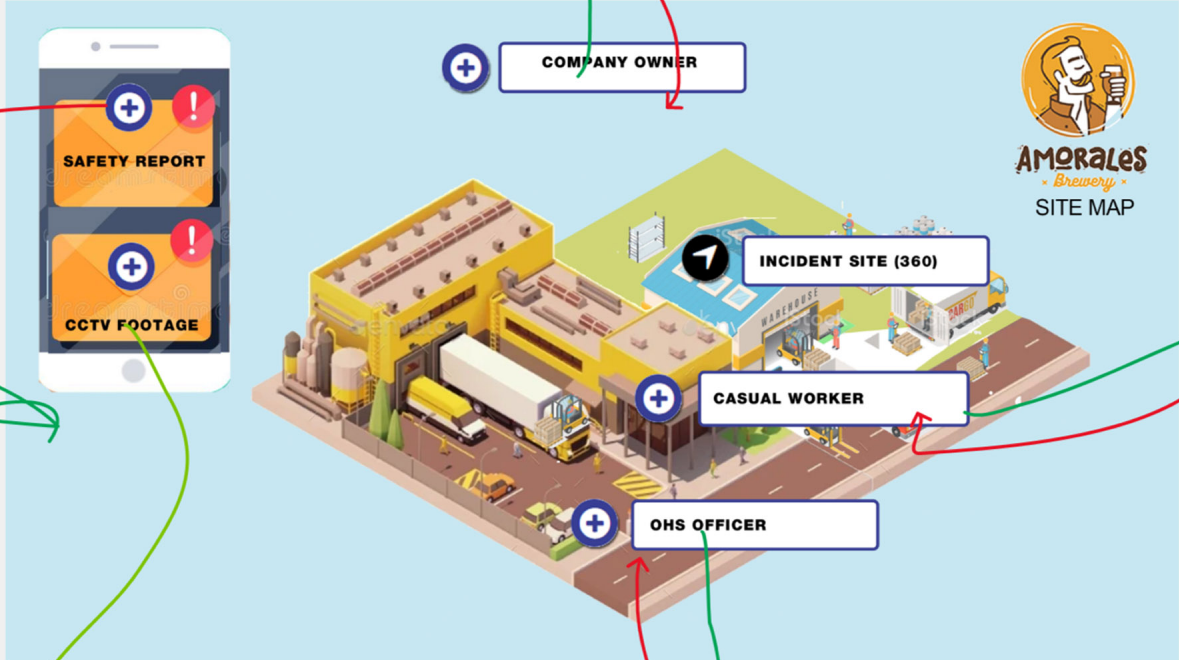
Map navigation  
State 2



VIDEO - Company Owner -  
failing to report past incidents

Poor safety culture  
cost cutting

Lack of management  
"buy in" to safe workplace  
culture. Not driving it. Box to  
tick. Continual improvement.



VIDEO - Interview 2  
CASUAL WORKER

Additional  
questions gleaned  
from email  
information



Activity - Deliver  
findings :

H5P Image  
Sequence activity?

Written  
assessment?

CCTV FOOTAGE  
New information  
presented(unlock  
ed)



Map navigation  
State 3

VIDEO - Interview 2  
OHS OFFICER

Revisited with  
different questions  
revealed from safety  
report in email





# Characters & Scripts

## CHARACTERS

- The student is the OHS Officer in this case interviewing their coworkers and gathering investigative data to come up with a conclusion.
- Create character dot points – Age, gender, look, dress, act
- Specific elements that may impact their ‘job’ and productiveness
- Due to generally having no budget the characters somewhat have to be molded around those available to help and specific personalities.

## SCRIPTS

- Incorporate the specific talking points from SME/Academic
- Incorporate specific actions to portray their personality
- Linking scripts to other scripts “This person noted XYZ, go have another chat to them again” like a real life conversation
- Characters adding in clues and building the case on “where are the potential issues within this company arising from”
- Where will the locations be? We chose Greenscreen in this case.
- Add in the questions (yellow highlight) so the student user can ask (3 – 5 different questions) linking to various responses like a conversation
- Jaimee writes scripts – I did complete an online script writing course.



OHS SIMULATION – V4 – EJ JW 29/6/22

VIDEO NUMBER: 3 – JENNY

VIDEO TITLE: OHS INTERVIEWS JENNY

EXTERNAL/INTERNAL: INTERNAL – STANDING IN HER OFFICE

JENNY IS INTERVIEWED IN HER OFFICE. SHE IS IN JEANS AND A SHIRT WITH FLUORO VEST WITH OHS PAPERWORK HEAVILY ON HER DESK. EVERYTHING IS IN ORDER. SHE SPEAKS SHORT, SHARP AND TO THE POINT.

JENNY

I just heard about Barry's injury. I am happy to help, not sure how much I can tell you though – I asked Barry to get the job done asap for today's production run. He should know what he's doing, he's been here 3 months already.

**Q1) Thanks Jenny, can you please explain what tasks Barry was doing this shift?**

As far as I know Barry was setting up for today's production run. We had CIP over the weekend.

There shouldn't have been anything different to usual. I just assumed everything was all good in there, I mean, Grant in maintenance and Leigh, the shift manager should have it under control.

**Q2) As the Production Supervisor, do you manage that area?**

Well, essentially yes but these people should be trained to do the job.

**Q3) Tell me about the induction and training Barry would have completed. What sort of experience does he have?**

Look I am not really sure I didn't do his induction.

**Q4) Are you able to show me any training records for Barry?**

No they are kept with HR – as are inductions I assume



OHS SIMULATION – V4 – EJ JW 29/6/22

**Q5) Who did the Brewery risk assessment?**

Ugh, I assume someone higher up did that! Not sure.

**Q6) Can you show me a copy of the risk assessment?**

I haven't seen one for a long time and don't know where

**Q7) Can you please describe what Barry was doing?**

(getting annoyed)

Barry was getting ready for production. Look, he does know the written procedure and the site rules but they don't fit every circumstance particularly for the early shift when senior management are not in yet, I encourage Barry to think for himself – we often need to make quick decisions so we can get things ready for production or everything is off schedule.

**Q8) Has Barry done this before, do you think he is confident with what he was doing?**

Well he shouldn't have been hired if he didn't know what he was doing. I had no idea Barry would have used the wrong part. I thought he had been inducted and trained. If he needs to know something he should ask and not just guess.

**Q9) OK so you are not sure whether he was inducted or trained?**

We just need to get the job done and I have other stuff to worry about. I have my quality and production KPIs to keep things running as best I can. I have to make assumptions sometimes – Barry said he was fine.



Let's have a look at **the final product**



6:35

Incoming call



Sam

Plant Manager

**Accept call**

# INCIDENT INVESTIGATION


You must conduct an incident investigation at your workplace.

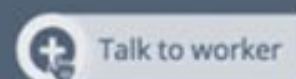
Follow on-screen tasks to complete your report.



Click and drag to navigate 360° rooms



Select  to interview and gather information



Click  to explore new areas in 360°





## Incident Investigation

- ☐ Incident reported - 6AM
- ☒ Investigate production floor.

Investigate production floor  
then visit Plant managers  
office (Sam)

A handwritten signature in black ink, appearing to be 'Sam'.





Go here





Checklist.doc



Visit Grant

## Incident Investigation

- ☒ Incident reported - 6AM
  - Investigate production floor. PRV malfunctioned during night shift, Barry was injured. Interview relevant staff then compile ACCIMAP.
- ☐ Conduct initial staff interviews
  - Jenny - Production Supervisor
    - maintenance asked to find a quick fix
    - production behind schedule, risk assessment unknown
  - Grant - Maintenance Officer
- ☐ Request specific paperwork
  - Brewery risk assessment
- ☐ Compile ACCIMAP findings for presentation





find the right people  
for the job all the



**Procedure.doc**

Ask Grant:

Why are there missing sections on the procedure?

I noticed this document is outdated. Are these documents regularly updated?



Checklist.doc

Procedure.doc

RiskAssess.doc



Visit Sam

## Incident Investigation

- ☒ Incident reported - 6AM
  - Investigate production floor. PRV malfunctioned during night shift, Barry was injured. Interview relevant staff then compile ACCIMAP.
- ☒ Conduct initial staff interviews
  - Jenny - Production Supervisor
    - maintenance asked to find a quick fix
    - production behind schedule, risk assessment unknown
  - Grant - Maintenance Officer
    - staff overworked, maintenance 'corners cut'
    - safety procedure out of date
  - Sara - OHS Rep.
    - staffing + safety concerns dismissed, high stress levels
    - parts supply process failures
    - raised concerns with management re: scheduling
  - Leigh - Shift Manager
    - maintenance & inspections slipping, KPIs, training issues, hiring agency casuals
- ☒ Request specific paperwork
  - Brewery risk assessment acquired
- ☐ Continue interview process
  - Grant
    - unsafe workaround instead of PRV was employed
    - cutbacks and less staff, routine maintenance is slipping
    - spare parts backorder and only when needed
  - Barry
    - Confirmed he used incorrect part under order
    - PPE not accessible on night shift
    - procedure ignored / needs updating
  - Sam
- ☐ Compile ACCIMAP findings for presentation



Thank you  
Questions?

