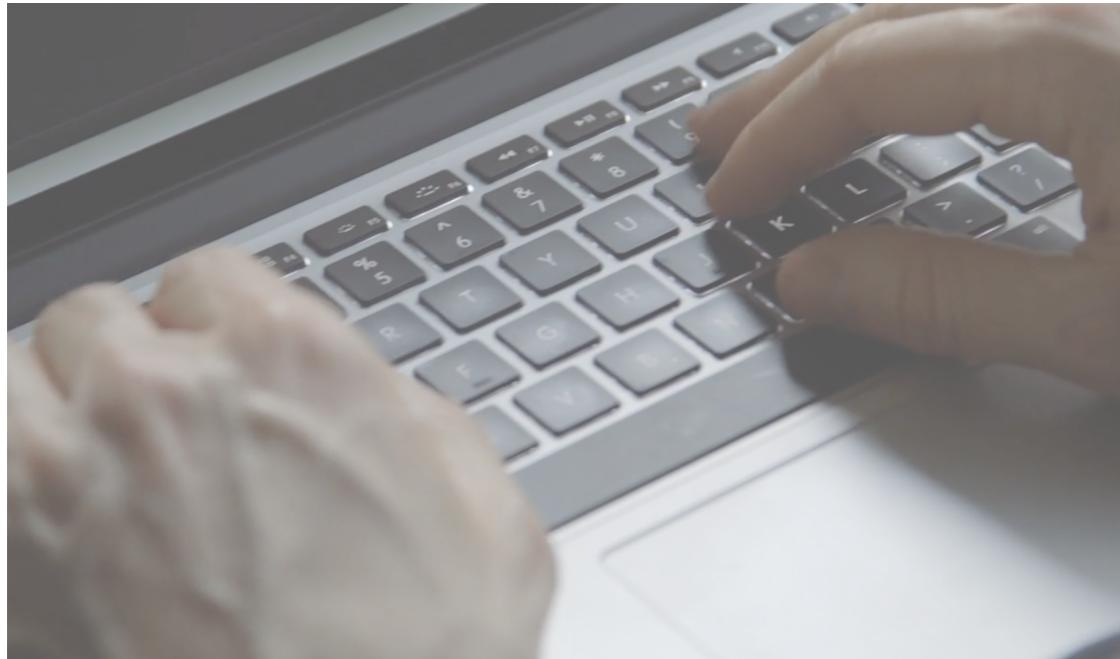


# Introduction to the Professional Development Award





# PDA

What is it equal to?

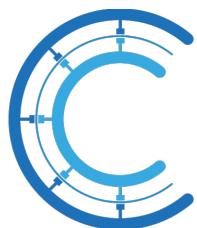
Structure

Work involved

Friday sessions

Timed & supervised help

Processes & Plagiarism

A photograph of a computer terminal window. The terminal is displaying a Node.js error stack trace, which includes file names like 'binaryPrimeIndex', 'Object.<anonymous>', 'Module.\_compile', 'Object.Module.\_extensions.', 'Function.Module.\_load', 'at startup', 'at node.js:977:3', and 'programs'. Below the stack trace, there is some command-line history, including 'node khan\_algo/binary\_search.js' and 'cd euler/'. The terminal has a dark background with light-colored text.

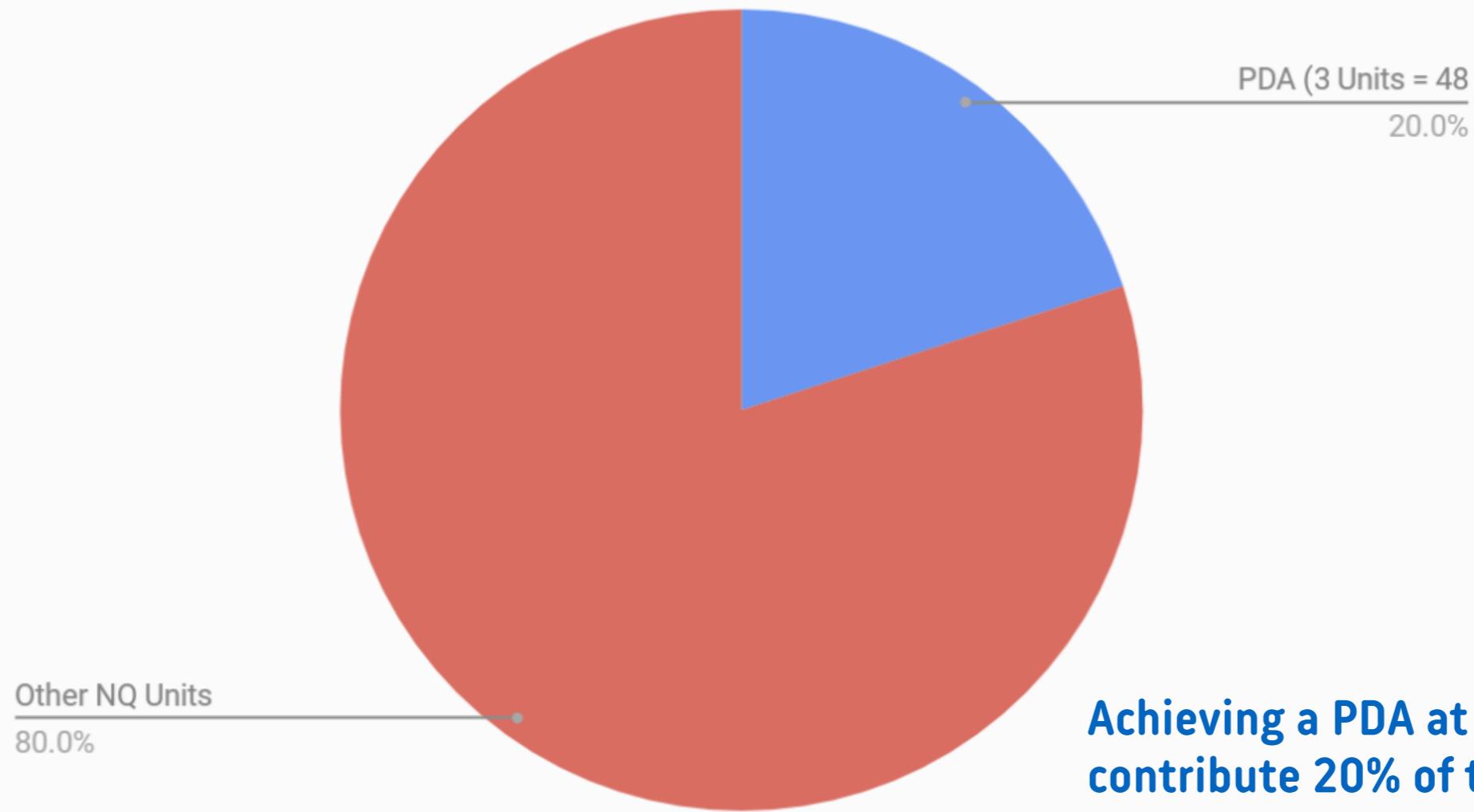
# What is it equal to?

## Professional Development Award: Software Development (Level 8)

SCQF Levels	SQA Qualifications		Qualifications of Higher Education Institutions	SVQs/MAs
12		↑	Doctoral Degree	Professional Apprenticeship
11			Masters Degree, Integrated Masters Degree, Post Graduate Diploma, Post Graduate Certificate	Professional Apprenticeship SVQ 5
10			Honours Degree, Graduate Diploma, Graduate Certificate	Professional Apprenticeship
9		Professional Development Award	Bachelors / Ordinary Degree, Graduate Diploma, Graduate Certificate	Technical Apprenticeship SVQ 4
8	Higher National Diploma		Diploma Of Higher Education	Technical Apprenticeship SVQ 4
7	Advanced Higher, Awards, Scottish Baccalaureate	Higher National Certificate	Certificate Of Higher Education	Modern Apprenticeship SVQ 3
6	Higher, Awards, Skills for Work Higher	↑ ↓		Modern Apprenticeship SVQ 3

# How does it fit in with an HND?

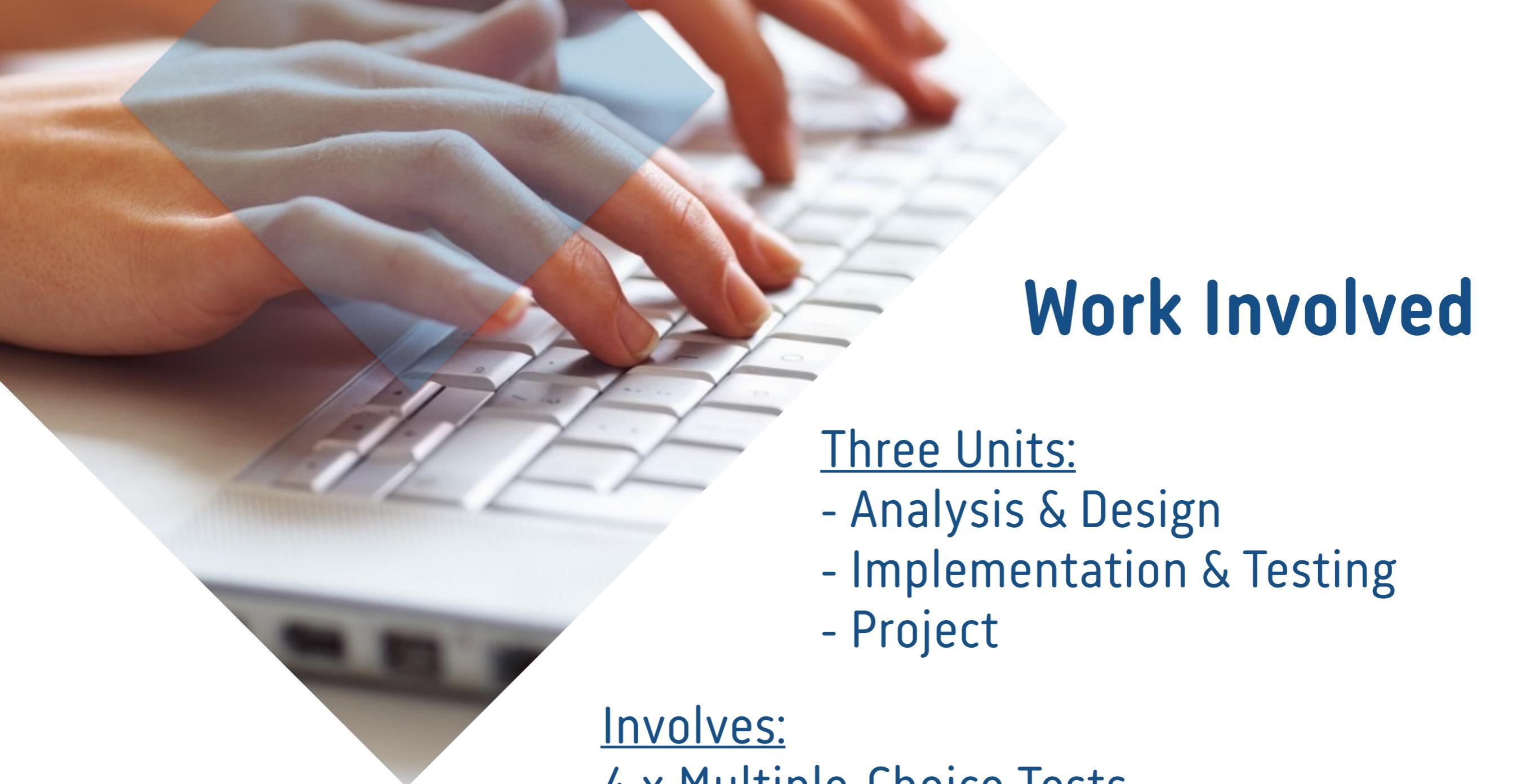
Higher National Diploma = 240 credits at SCQF Level 8



**Achieving a PDA at Level 8 could contribute 20% of the credits required to gain a full HND in Software Development.**

# Structure

Analysis & Design	Implementation & Testing	Project
1. Describe the use of analysis and design techniques in the software development process	1. Describe structured programming constructs	1. Plan the development of a moderately complex software product
2. Define software requirements using object-oriented analysis techniques	2. Apply object-oriented programming concepts	2. Design the structure of a moderately complex software product using object-oriented programming techniques
3. Design software solutions using object-oriented techniques	3. Construct programs that make use of algorithms and data structures	3. Develop a moderately complex software product using an object-oriented programming language
4. Model software solutions using object-oriented	4. Test programs using a range of approaches	4. Test the operation and acceptance of a moderately complex software product



# Work Involved

## Three Units:

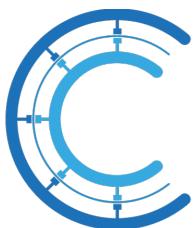
- Analysis & Design
- Implementation & Testing
- Project

## Involves:

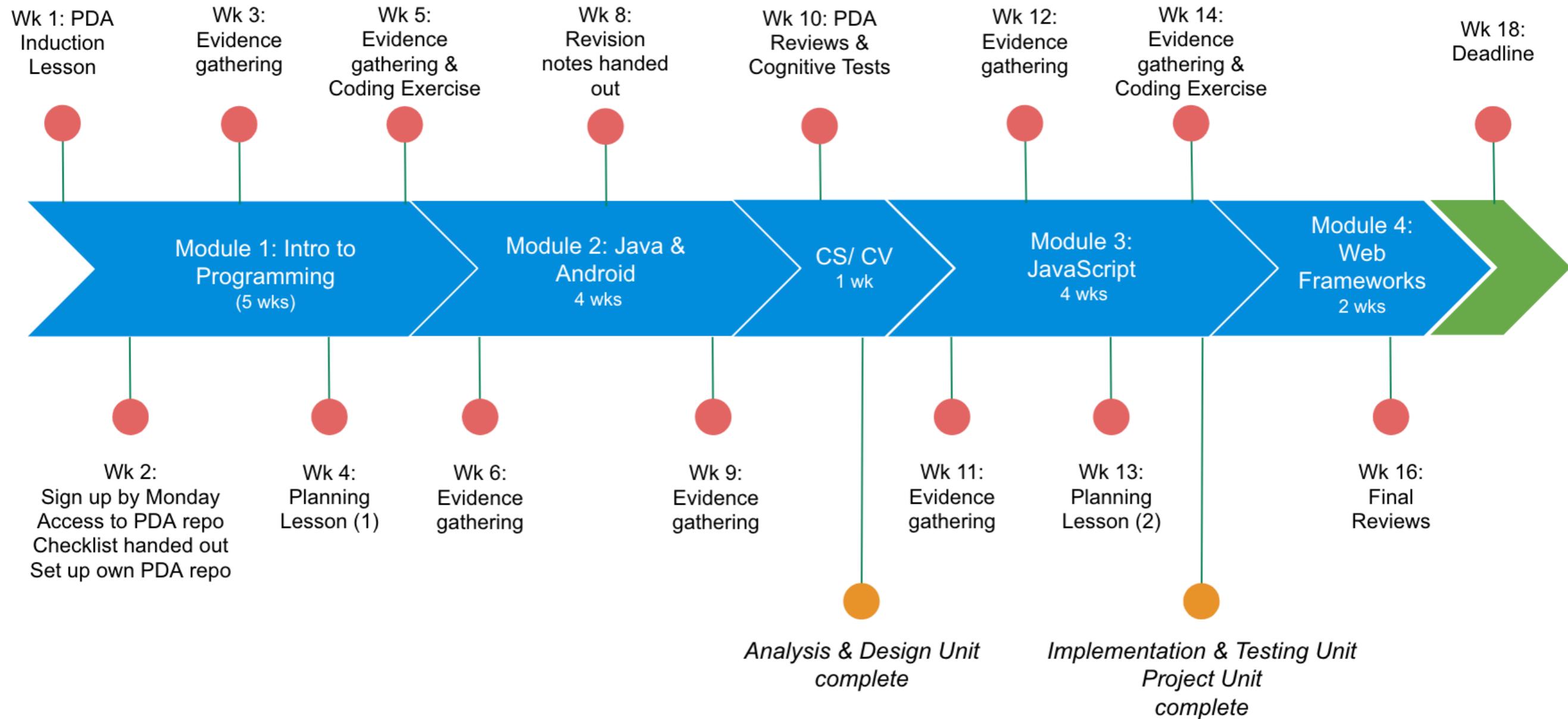
4 x Multiple-Choice Tests

2 x Coding Exercises

Evidence Gathering for each unit



# Current Course & PDA Integration



# Work Involved

4 x Multiple-Choice Tests

2 x Coding Exercises

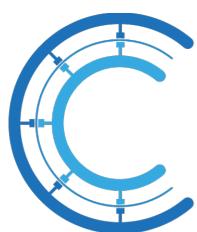
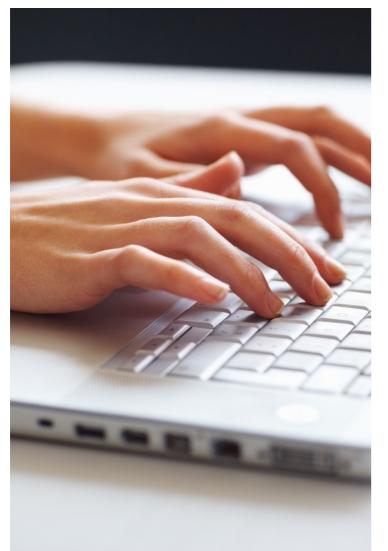
Evidence Gathering for each unit

Cognitive Tests	Coding Exercises	Evidence Gathering
<p>Four Cognitive Tests:</p> <ul style="list-style-type: none"><li>2 x Analysis &amp; Design</li><li>2 x Implementation &amp; Testing</li></ul> <p>Multiple choice &amp; short answers</p> <p>Revision - not currently taught explicitly on the course</p> <p>Sit tests in week 10</p> <p>Resits</p>	<p>Implementation and Testing Unit</p> <p>Different types of testing</p> <p>2 x coding exercises:</p> <ul style="list-style-type: none"><li>• Static and Dynamic Testing Exercises (Ruby)</li><li>• Unit and Integration Exercises (Javascript)</li></ul>	<p>All three units</p> <p>Checklist contains:</p> <ul style="list-style-type: none"><li>• timetable</li><li>• list of evidence</li></ul> <p>Evidence gathered from:</p> <ul style="list-style-type: none"><li>• homework</li><li>• projects</li><li>• created for the PDA</li></ul>

# Friday Sessions & Supervised Help

Sessions for the PDA on Fridays  
Project weeks  
Work saved to your Github Repo  
Complete as homework

Friday starts at 10:00 am  
Scrum then homework given  
PDA time  
Use your time wisely

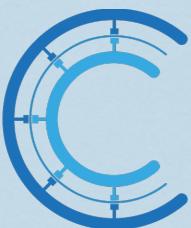


# Processes & Plagiarism

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This screenshot shows a GitHub repository page for 'codeclan / pda'. The repository is private. The main navigation bar includes 'Pull requests', 'Issues', 'Marketplace', and 'Gists'. Below the navigation, there are tabs for 'Code', 'Issues 0', 'Pull requests 0', 'Projects 0', 'Wiki', and 'Insights'. A summary section displays '28 commits', '1 branch', and '0 releases'. A dropdown menu shows the current branch is 'master'. There is a 'New pull request' button and a 'Create new file' button. A comment from user 'Klk1987' is visible, suggesting to 'Comment code rather than highlight change'. The file list on the right includes:

- Coding Exercises: Comment code rather than highlight change
- Cognitive Test Revision Notes: Resources organised into folders
- PDA Lessons: Updating repo inline with new timetable
- Policies and Procedures: policies and procedures added
- Student Checklists: E13 and G2 checklist added
- README.md: Title formatting



CodeClan PDA Repo

Policies and Procedures

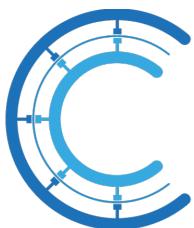
Reviews and Feedback

Week 14 Completion

Marking and Verification

# Frequently Asked Questions

- What if I haven't covered all of the evidence in my assignments?
- Is there a time limit on completing the PDA?
- Is the Professional Development Award graded?



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# What Now?

Complete the registration form:

- Full name
- Gender
- Full Date of Birth
- Full Address
- SCN (if you have one)

