Sure, here's a step-by-step guide to installing Google App Engine and creating a Hello World app:

### Step 1: Install Google Cloud SD

1. Visit the [Google Cloud SDK documentation](https://cloud.google.com/sdk/docs/install) to download and install the SDK appropriate for your operating system.

### Step 2: Initialize Google Cloud SDK

1. Open a terminal or command prompt.

2. Run the command `gcloud init` and follow the instructions to authenticate and set up your Google Cloud account.

### Step 3: Install Google App Engine Component

1. Once the Google Cloud SDK is installed and initialized, run the command:

```

gcloud components install app-engine-python

```

This command installs the Python runtime for Google App Engine.

### Step 4: Create a Hello World App

1. Create a new directory for your project:

```

mkdir hello\_world\_app

cd hello\_world\_app

```

2. Inside the project directory, create a file named `app.yaml` with the following content:

```yaml

runtime: python37

handlers:

- url: /.\*

script: auto

```

3. Create another file named `main.py` with the following Python code:

```python

from flask import Flask

app = Flask(\_\_name\_\_)

@app.route('/')

def hello():

return 'Hello, World!'

if \_\_name\_\_ == '\_\_main\_\_':

app.run()

```

This code creates a simple Flask web application that responds with "Hello, World!" when accessed.

### Step 5: Deploy the App to Google App Engine

1. In the terminal, navigate to the project directory (`hello\_world\_app`).

2. Run the following command to deploy the app to Google App Engine:

```

gcloud app deploy

```

3. Follow the prompts to select your project and region.

4. After deployment completes, you can access your web app at `https://YOUR\_PROJECT\_ID.appspot.com`.

### Step 6: Test the App

1. Open a web browser and navigate to the URL provided after deploying the app.

2. You should see the message "Hello, World!" displayed in your browser.

Congratulations! You have successfully installed Google App Engine, created a Hello World app, and deployed it to the Google Cloud platform. You can now explore more advanced features and build additional web applications using Google App Engine.